

1.

|     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 |
| 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 |
| 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 |
| 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 |
| 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 |

The number which have 0, 2, 4, 6 or 8 at their ones place are called even number.

2. Write each of the following numbers in words.

- a. One hundred fifty                      b. Three hundred eleven  
c. Two hundred sixty eight              d. Four hundred fifty six  
e. Five hundred seventy eight          f. Six hundred ninety three

3. Write the following numbers in figures.

- a. 108                      b. 271                      c. 390                      d. 462  
e. 525

4. Fill in the blanks using the given patterns.

- a. 106, 108, 110, 112                      b. 216, 218, 220, 222  
c. 327, 329, 331, 333                      d. 445, 450, 455, 460

5. Write each of the following numbers in the expanded form.

- a.  $100 + 20 + 3$                       b.  $200 + 20 + 5$   
c.  $300 + 60 + 8$                       d.  $400 + 80 + 9$

6. Write each of the following in short form.

- a. 157                      b. 243                      c. 379                      d. 491

7. Fill in the blanks.

- a. 9                      b. 99                      c. 999

8. Fill in the blanks.

- a. 0                      b. 10                      c. 100

9. Compare the numbers and put the symbol '<' or '>' in the blank boxes.

- a. 16  61                      b. 25  52                      c. 34  43  
d. 47  74                      e. 42  35                      f. 75  15  
g. 25  65                      h. 14  12

10. Colour the greatest number in each part.

a.     

b.     

c.     

d.     

11. Arrange the following numbers in ascending order.

a. 98, 512, 697, 786

b. 111, 678, 867, 929

c. 269, 457, 543, 982

d. 123, 654, 789, 890

e. 15, 124, 258, 856

12. Arrange the following numbers in descending order.

a. 999, 980, 540, 172

b. 751, 713, 217, 185

c. 786, 687, 678, 525

d. 951, 682, 507, 195

e. 652, 258, 175, 74

13. Write the place value of the underlined digits in each of the following numbers.

a.  $2 \times 10 = 20$

b.  $2 \times 100 = 200$

c.  $9 \times 1 = 9$

d.  $4 \times 100 = 400$

e.  $9 \times 10 = 90$

f.  $8 \times 10 = 80$

14. Write all possible 3-digits numbers using all the digits and circle the greatest number.

a. 425, 245, 542, 452, 254, 524

b. 186, 681, 861, 168, 618, 816

c. 238, 832, 283, 382, 823, 328

d. 490, 694, 469, 964, 946, 649

15. Add the following.

a.

|   |   |   |
|---|---|---|
|   | T | O |
|   | 1 |   |
|   | 5 | 9 |
| + | 3 | 1 |
|   | 9 | 0 |

b.

|   |   |   |
|---|---|---|
|   | T | O |
|   | 1 |   |
|   | 2 | 7 |
| + | 2 | 3 |
|   | 5 | 0 |

c.

|   |   |   |
|---|---|---|
|   | T | O |
|   | 1 |   |
|   | 4 | 8 |
| + | 3 | 4 |
|   | 8 | 2 |

d.

|   |   |   |
|---|---|---|
|   | T | O |
|   | 1 |   |
|   | 4 | 5 |
| + | 3 | 8 |
|   | 8 | 3 |

e.

|   |   |   |   |
|---|---|---|---|
|   | H | T | O |
|   |   | 1 |   |
|   |   | 2 | 5 |
| + |   | 7 | 6 |
|   | 1 | 0 | 1 |

f.

|   |   |   |
|---|---|---|
|   | T | O |
|   | 1 | 1 |
|   | 2 | 3 |
| + | 1 | 3 |
|   | 4 | 7 |

g.

|   |   |   |
|---|---|---|
|   | T | O |
|   | 1 |   |
|   | 2 | 4 |
|   | 2 | 5 |
| + | 2 | 2 |
|   | 7 | 1 |

h.

|   |   |   |
|---|---|---|
|   | T | O |
|   | 1 |   |
|   | 3 | 5 |
|   | 1 | 5 |
| + | 2 | 3 |
|   | 7 | 3 |

# 16. Arrange in columns and add.

a.

| H | T | O |
|---|---|---|
| 1 | 1 |   |
| 3 | 7 | 9 |
| + | 4 | 2 |
| 8 | 0 | 0 |

b.

| H | T | O |
|---|---|---|
|   | 1 |   |
| 4 | 0 | 6 |
| + | 2 | 0 |
| 6 | 1 | 0 |

c.

| H | T | O |
|---|---|---|
|   | 1 |   |
| 8 | 0 | 3 |
| + | 1 | 1 |
| 9 | 2 | 0 |

d.

| H | T | O |
|---|---|---|
|   | 1 |   |
| 7 | 0 | 7 |
| + | 2 | 8 |
| 9 | 9 | 0 |

# 17. Regroup mentally and subtract the following.

a.

| T            | O            |
|--------------|--------------|
| 3            | 12           |
| <del>4</del> | <del>2</del> |
| -            | 1            |
| 2            | 4            |

b.

| T            | O            |
|--------------|--------------|
| 7            | 11           |
| <del>8</del> | <del>1</del> |
| -            | 1            |
| 6            | 2            |

c.

| T            | O            |
|--------------|--------------|
| 2            | 15           |
| <del>3</del> | <del>5</del> |
| -            | 1            |
| 1            | 8            |

d.

| H | T            | O            |
|---|--------------|--------------|
|   | 2            | 14           |
| 5 | <del>3</del> | <del>4</del> |
| - | 1            | 8            |
| 5 | 1            | 6            |

e.

| H | T            | O            |
|---|--------------|--------------|
|   | 7            | 10           |
| 4 | <del>8</del> | <del>1</del> |
| - | 2            | 7            |
| 4 | 5            | 3            |

f.

| H | T            | O |
|---|--------------|---|
|   | 10           |   |
| 1 | <del>0</del> | 8 |
| - | 7            | 4 |
| 1 | 3            | 4 |

g.

| H            | T            | O |
|--------------|--------------|---|
| 0            | 11           |   |
| <del>1</del> | <del>1</del> | 9 |
| -            | 2            | 8 |
|              | 9            | 1 |

h.

| H | T            | O            |
|---|--------------|--------------|
|   | 2            | 12           |
| 3 | <del>3</del> | <del>2</del> |
| - | 2            | 8            |
| 3 | 0            | 4            |

# 18. Arrange in columns and find the difference. Solve these in your notebook.

a.

| H            | T            | O            |
|--------------|--------------|--------------|
|              | 14           |              |
| 5            | <del>4</del> | 10           |
| <del>6</del> | <del>5</del> | <del>0</del> |
| -            | 3            | 8            |
| 2            | 6            | 4            |

b.

| H            | T            | O |
|--------------|--------------|---|
| 2            | 10           |   |
| <del>3</del> | <del>0</del> | 8 |
| -            | 2            | 7 |
| 0            | 3            | 3 |

c.

| H | T            | O            |
|---|--------------|--------------|
|   | 7            | 11           |
| 4 | <del>8</del> | <del>1</del> |
| - | 1            | 2            |
| 3 | 5            | 7            |

d.

| H | T | O |
|---|---|---|
| 9 | 9 | 9 |
| - | 8 | 0 |
| 1 | 9 | 0 |

# 19. A vendor sold 310 candies in first week and 358 candies in the second week. How many candies did he sell in these two weeks?

Candies sold in first week = 310

Candies sold in second week = 358

The vendor sold 668 candies in the two weeks.

| H | T | O |
|---|---|---|
| 3 | 1 | 0 |
| + | 3 | 5 |
| 6 | 6 | 8 |

# 20. A shopkeeper had 365 pens. He sold 185 pens. How many pens are still left with him?

Total pens = 365

Number of pens sold = 185

Number of pens left = 180

There are 180 pens left. With the shopkeeper.

| H | T | O |
|---|---|---|
| 3 | 6 | 5 |
| - | 1 | 8 |
| 1 | 8 | 0 |

21. In a library, there are 294 books in French, 468 books in English and 179 books in Hindi. How many books are there in the library in all?

Number of French books = 294

Number of English books = 468

Number of Hindi books = 179

There are 941 books in the library in all.

| H | T | O |
|---|---|---|
| 2 | 2 |   |
| 2 | 9 | 4 |
| 4 | 6 | 8 |
| + | 1 | 7 |
| 9 | 4 | 1 |

22. Rahul had 450 balloons. 365 of them blew away. How many balloons were left with him to blow?

Total number of balloons = 450

Balloons blew away = 365

Balloons left with him to blow = 085

Therefore, there were left 85 balloons with him to blow.

| H | T  | O  |
|---|----|----|
|   | 14 |    |
| 3 | 4  | 10 |
| 4 | 5  | 0  |
| - | 3  | 6  |
| 0 | 8  | 5  |

23. Multiply using the multiplication tables and write the product.

a. 25

b. 56

c. 30

d. 22

e. 14

f. 12

g. 24

h. 50

i. 40

j. 18

k. 36

l. 45

24. Find the product.

a.

|   | H | T | O |
|---|---|---|---|
|   |   | 5 |   |
|   |   | 3 | 6 |
| x |   |   | 9 |
|   | 3 | 2 | 4 |

b.

|   | H | T | O |
|---|---|---|---|
|   |   | 4 |   |
|   |   | 5 | 8 |
| x |   |   | 5 |
|   | 2 | 9 | 0 |

c.

|   | H | T | O |
|---|---|---|---|
|   |   |   |   |
|   |   | 7 | 9 |
| x |   |   | 7 |
|   | 5 | 5 | 3 |

d.

|   | H | T | O |
|---|---|---|---|
|   |   | 3 |   |
|   |   | 8 | 5 |
| x |   |   | 6 |
|   | 5 | 1 | 0 |

e.

|   | H | T | O |
|---|---|---|---|
|   |   | 2 |   |
|   |   | 2 | 9 |
| x |   |   | 3 |
|   |   | 8 | 7 |

25. Divide and write the quotient.

a.

$$\begin{array}{r} 2 \overline{)10} \overline{)5} \\ - 10 \\ \hline 00 \end{array}$$

b.

$$\begin{array}{r} 3 \overline{)15} \overline{)5} \\ - 15 \\ \hline 00 \end{array}$$

c.

$$\begin{array}{r} 3 \overline{)30} \overline{)10} \\ - 30 \\ \hline 00 \end{array}$$

d.

$$\begin{array}{r} 4 \overline{)36} \overline{)9} \\ - 36 \\ \hline 00 \end{array}$$

e.

$$\begin{array}{r} 5 \overline{)25} \overline{)5} \\ - 25 \\ \hline 00 \end{array}$$

f.

$$\begin{array}{r} 6 \overline{)42} \overline{)7} \\ - 42 \\ \hline 00 \end{array}$$

g. 
$$\begin{array}{r} 7 \overline{) 63} 9 \\ - 63 \\ \hline 00 \end{array}$$

h. 
$$\begin{array}{r} 9 \overline{) 90} 10 \\ - 9 \\ \hline 00 \end{array}$$

i. 
$$\begin{array}{r} 6 \overline{) 48} 8 \\ - 48 \\ \hline 00 \end{array}$$

26. Divide the following using the long division method.

a. 
$$\begin{array}{r} 6 \overline{) 54} 9 \\ - 54 \\ \hline 00 \end{array}$$

b. 
$$\begin{array}{r} 7 \overline{) 49} 7 \\ - 49 \\ \hline 00 \end{array}$$

c. 
$$\begin{array}{r} 8 \overline{) 56} 7 \\ - 56 \\ \hline 00 \end{array}$$

27. A table has 4 legs. How many legs do 25 tables have?

|   | H | T | O |
|---|---|---|---|
|   |   | 2 |   |
|   |   | 2 | 5 |
| × |   |   | 4 |
|   | 1 | 0 | 0 |

Therefore, 25 tables have 100 legs.

28. A bundle has 4 sticks. How many sticks are there in 45 such bundles?

|   | H | T | O |
|---|---|---|---|
|   |   | 2 |   |
|   |   | 4 | 5 |
| × |   |   | 4 |
|   | 1 | 8 | 0 |

Therefore, there are 180 sticks in 45 bundles.

29. There are 90 grapes in 10 bunches. Each bunch contains the same number of grapes. How many grapes are there in each bunch?

$$\begin{array}{r} 10 \overline{) 90} 9 \\ - 90 \\ \hline 00 \end{array}$$

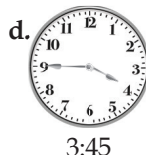
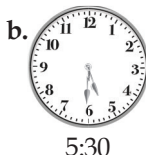
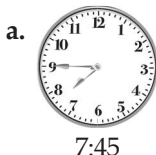
There are 9 grapes in each bunch.

30. There are 38 students in one section. How many students are there in 4 sections if there are the same number of students in each section?

|   | H | T | O |
|---|---|---|---|
|   |   | 3 |   |
|   |   | 3 | 8 |
| × |   |   | 4 |
|   | 1 | 5 | 2 |

There are 152 students in 4 sections.

31. Read the clock and write the correct time in the blanks.



32. Solve the following.

a.

|   | ₹ |   | P |   |
|---|---|---|---|---|
|   | 1 |   | 1 |   |
|   | 7 | 4 | 3 | 7 |
| + | 1 | 6 | 4 | 2 |
|   | 9 | 0 | 8 | 0 |

b.

|   | ₹ |   | P |   |
|---|---|---|---|---|
|   | 1 | 6 | 3 | 7 |
| + | 4 | 3 | 0 | 0 |
|   | 5 | 9 | 3 | 7 |

c.

|   | ₹ |   | P |   |
|---|---|---|---|---|
|   | 4 | 1 | 5 | 2 |
| + | 5 | 8 | 0 | 2 |
|   | 9 | 9 | 5 | 2 |

d.

|   | ₹ |   | P |   |
|---|---|---|---|---|
|   |   |   | 1 | 1 |
|   | 2 | 4 | 1 | 2 |
| + | 7 | 5 | 0 | 7 |
|   | 9 | 9 | 2 | 0 |

e.

|   | ₹ |   | P |   |
|---|---|---|---|---|
|   | 3 | 4 | 0 | 2 |
| + | 2 | 1 | 7 | 0 |
|   | 5 | 5 | 7 | 2 |

f.

|   | ₹  |   | P |   |
|---|----|---|---|---|
|   | 1  |   | 1 |   |
|   | 6  | 7 | 5 | 7 |
| + | 4  | 3 | 0 | 5 |
|   | 11 | 0 | 6 | 2 |

g.

|   | ₹ |   | P |   |
|---|---|---|---|---|
|   | 5 | 7 | 0 | 0 |
| + | 3 | 0 | 0 | 7 |
|   | 8 | 7 | 0 | 7 |

h.

|   | ₹  |   | P |   |
|---|----|---|---|---|
|   |    |   | 1 |   |
|   | 7  | 5 | 7 | 7 |
| + | 3  | 4 | 0 | 5 |
|   | 10 | 9 | 8 | 2 |

i.

|   | ₹ |   | P |   |
|---|---|---|---|---|
|   | 5 | 8 | 0 | 0 |
| + | 3 | 0 | 0 | 7 |
|   | 8 | 8 | 0 | 7 |

33. Observe the given objects and write the name of the shapes they have.

- a.  **Rectangle**    b.  **Cylinder**    c.  **Cube**    d.  **Cone**    e.  **Cylinder**    f.  **Sphere**

34. Complete the patterns.

- a. 

- b. 

- c. 

35. The following data shows the number of free throws scored in basketball by 4 different players.

- a. Tarun-10  
 b. Number of free throws by Tarun =  $5 \times 2 = 10$   
 Number of free throws by Chetan =  $4 \times 2 = 8$   
 Differences between Tarun and Chetan throws =  $10 - 8$   
 = 2

$\therefore$  Tarun makes 2 more throws than Chetan.

- c. John-4

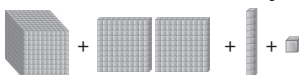
- d. Number of free throws by Tarun =  $5 \times 2 = 10$   
 Number of free throws by Chetan =  $4 \times 2 = 8$   
 Number of free throws by Karim =  $3 \times 2 = 6$   
 Number of free throws by John =  $2 \times 2 = 4$   
 Total throws by them =  $10 + 8 + 6 + 4 = 18$

## Exercise 2 A

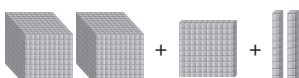
1. Write the successor of the following numbers.

|    |      |      |      |      |      |      |      |      |      |      |
|----|------|------|------|------|------|------|------|------|------|------|
| a. | 1001 | 1002 | 1003 | 1004 | 1005 | 1006 | 1007 | 1008 | 1009 | 1010 |
| b. | 2056 | 2057 | 2058 | 2059 | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 |
| c. | 3023 | 3024 | 3025 | 3026 | 3027 | 3028 | 3029 | 3030 | 3031 | 3032 |
| d. | 4048 | 4049 | 4050 | 4051 | 4052 | 4053 | 4054 | 4055 | 4056 | 4057 |
| e. | 5039 | 5040 | 5041 | 5042 | 5043 | 5044 | 5045 | 5046 | 5047 | 5048 |
| f. | 6070 | 6071 | 6072 | 6073 | 6074 | 6075 | 6076 | 6077 | 6078 | 6079 |
| g. | 7076 | 7077 | 7078 | 7079 | 7080 | 7081 | 7082 | 7083 | 7084 | 7085 |
| h. | 8081 | 8082 | 8083 | 8084 | 8085 | 8086 | 8087 | 8088 | 8089 | 8090 |
| i. | 9090 | 9091 | 9092 | 9093 | 9094 | 9995 | 9096 | 9097 | 9098 | 9999 |

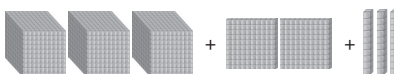
2. Write the numbers and say it aloud.

a.  = 

| Th | H | T | O |
|----|---|---|---|
| 1  | 2 | 1 | 2 |

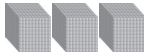
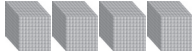
b.  = 

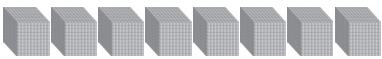
| Th | H | T | O |
|----|---|---|---|
| 2  | 1 | 2 | 1 |

c.  = 

| Th | H | T | O |
|----|---|---|---|
| 3  | 2 | 3 | 3 |

3. Complete the following table by writing the correct number formed. Few numbers have been written for you.

|    | Representation                                                                      | Number Formed                                                                                                                 | Number Name |   |   |   |   |   |   |   |                |
|----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------|---|---|---|---|---|---|---|----------------|
| a. |  | <table border="1"><tr><th>Th</th><th>H</th><th>T</th><th>O</th></tr><tr><td>1</td><td>0</td><td>0</td><td>0</td></tr></table> | Th          | H | T | O | 1 | 0 | 0 | 0 | One thousand   |
| Th | H                                                                                   | T                                                                                                                             | O           |   |   |   |   |   |   |   |                |
| 1  | 0                                                                                   | 0                                                                                                                             | 0           |   |   |   |   |   |   |   |                |
| b. |  | <table border="1"><tr><th>Th</th><th>H</th><th>T</th><th>O</th></tr><tr><td>2</td><td>0</td><td>0</td><td>0</td></tr></table> | Th          | H | T | O | 2 | 0 | 0 | 0 | Two thousand   |
| Th | H                                                                                   | T                                                                                                                             | O           |   |   |   |   |   |   |   |                |
| 2  | 0                                                                                   | 0                                                                                                                             | 0           |   |   |   |   |   |   |   |                |
| c. |  | <table border="1"><tr><th>Th</th><th>H</th><th>T</th><th>O</th></tr><tr><td>3</td><td>0</td><td>0</td><td>0</td></tr></table> | Th          | H | T | O | 3 | 0 | 0 | 0 | Three thousand |
| Th | H                                                                                   | T                                                                                                                             | O           |   |   |   |   |   |   |   |                |
| 3  | 0                                                                                   | 0                                                                                                                             | 0           |   |   |   |   |   |   |   |                |
| d. |  | <table border="1"><tr><th>Th</th><th>H</th><th>T</th><th>O</th></tr><tr><td>4</td><td>0</td><td>0</td><td>0</td></tr></table> | Th          | H | T | O | 4 | 0 | 0 | 0 | Four thousand  |
| Th | H                                                                                   | T                                                                                                                             | O           |   |   |   |   |   |   |   |                |
| 4  | 0                                                                                   | 0                                                                                                                             | 0           |   |   |   |   |   |   |   |                |
| e. |  | <table border="1"><tr><th>Th</th><th>H</th><th>T</th><th>O</th></tr><tr><td>5</td><td>0</td><td>0</td><td>0</td></tr></table> | Th          | H | T | O | 5 | 0 | 0 | 0 | Five thousand  |
| Th | H                                                                                   | T                                                                                                                             | O           |   |   |   |   |   |   |   |                |
| 5  | 0                                                                                   | 0                                                                                                                             | 0           |   |   |   |   |   |   |   |                |
| f. |  | <table border="1"><tr><th>Th</th><th>H</th><th>T</th><th>O</th></tr><tr><td>6</td><td>0</td><td>0</td><td>0</td></tr></table> | Th          | H | T | O | 6 | 0 | 0 | 0 | Six thousand   |
| Th | H                                                                                   | T                                                                                                                             | O           |   |   |   |   |   |   |   |                |
| 6  | 0                                                                                   | 0                                                                                                                             | 0           |   |   |   |   |   |   |   |                |

| g. |  | <table> <tr><th>Th</th><th>H</th><th>T</th><th>O</th></tr> <tr><td>7</td><td>0</td><td>0</td><td>0</td></tr> </table> | Th | H | T | O | 7 | 0 | 0 | 0 | Seven thousand |
|----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|----|---|---|---|---|---|---|---|----------------|
| Th | H                                                                                 | T                                                                                                                     | O  |   |   |   |   |   |   |   |                |
| 7  | 0                                                                                 | 0                                                                                                                     | 0  |   |   |   |   |   |   |   |                |
| h. |  | <table> <tr><th>Th</th><th>H</th><th>T</th><th>O</th></tr> <tr><td>8</td><td>0</td><td>0</td><td>0</td></tr> </table> | Th | H | T | O | 8 | 0 | 0 | 0 | Eight thousand |
| Th | H                                                                                 | T                                                                                                                     | O  |   |   |   |   |   |   |   |                |
| 8  | 0                                                                                 | 0                                                                                                                     | 0  |   |   |   |   |   |   |   |                |
| i. |  | <table> <tr><th>Th</th><th>H</th><th>T</th><th>O</th></tr> <tr><td>9</td><td>0</td><td>0</td><td>0</td></tr> </table> | Th | H | T | O | 9 | 0 | 0 | 0 | Nine thousand  |
| Th | H                                                                                 | T                                                                                                                     | O  |   |   |   |   |   |   |   |                |
| 9  | 0                                                                                 | 0                                                                                                                     | 0  |   |   |   |   |   |   |   |                |

**4. Write the number names for the following numbers.**

- Four thousand five hundred sixty seven.
- One thousand two hundred twenty seven.
- Five thousand five hundred fifty five.
- Seven thousand eight hundred sixty nine.
- Nine thousand nine hundred ninety nine.

**5. Write the number for each of the following number names.**

- 1, 480
- 2, 896
- 3, 765
- 4, 679
- 5, 932

**6. Add the numbers given below in circles and write the number formed. Also, write its number name.**

- 4, 122    Four thousand one hundred twenty two.
- 6, 765    Six thousand seven hundred sixty five.

**7. Write the number which comes just before and just after the given numbers.**

- |      |      |      |
|------|------|------|
| 7134 | 7135 | 7136 |
|------|------|------|
- |      |      |      |
|------|------|------|
| 9908 | 9909 | 9910 |
|------|------|------|
- |      |      |      |
|------|------|------|
| 3185 | 3186 | 3187 |
|------|------|------|
- |      |      |      |
|------|------|------|
| 9898 | 9899 | 9900 |
|------|------|------|
- |      |      |      |
|------|------|------|
| 1457 | 1458 | 1459 |
|------|------|------|
- |      |      |      |
|------|------|------|
| 4785 | 4786 | 4787 |
|------|------|------|

**8. Write the number which comes in between.**

- |      |      |      |
|------|------|------|
| 4567 | 4568 | 4569 |
|------|------|------|
- |      |      |      |
|------|------|------|
| 4320 | 4321 | 4322 |
|------|------|------|
- |      |      |      |
|------|------|------|
| 5095 | 5096 | 5097 |
|------|------|------|

**9. Complete the following sequences.**

|      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|
| 1021 | 1022 | 1023 | 1024 | 1025 | 1026 | 1027 | 1028 |
| 1029 | 1030 | 1031 | 1032 | 1033 | 1034 | 1035 | 1036 |

**10. Read the given statements. Correct those they are wrong.**

- 8, 353 is eight thousand three hundred fifty three.
- Two thousand three hundred nineteen is 2319.
- Nineteen hundred fifty-seven is written as 1957.

## Exercise 2 B

1. Write the successor of the following numbers.

- a.  $4954 + 1 = 4955$       b.  $7215 + 1 = 7216$       c.  $8900 + 1 = 8901$   
 d.  $2501 + 1 = 2502$       e.  $7999 + 1 = 8000$       f.  $9998 + 1 = 9999$   
 g.  $1252 + 1 = 1253$       h.  $4152 + 1 = 4153$       i.  $2485 + 1 = 2486$

2. Write the predecessor of the following numbers.

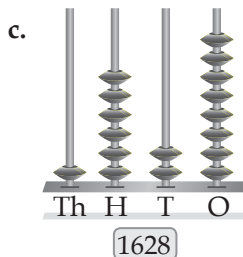
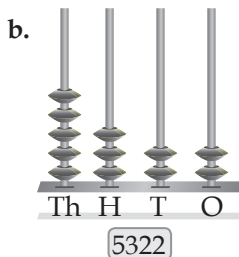
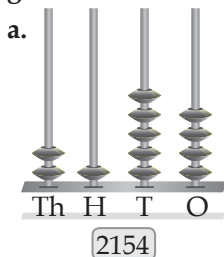
- a.  $4985 - 1 = 4984$       b.  $3000 - 1 = 2999$       c.  $9592 - 1 = 9591$   
 d.  $8246 - 1 = 8245$       e.  $9001 - 1 = 9000$       f.  $7775 - 1 = 7774$   
 g.  $4752 - 1 = 4751$       h.  $3285 - 1 = 3284$       i.  $7853 - 1 = 7852$

## Exercise 2 C

1. Read the numbers shown on the abacus and write the number and its number name. One has been done for you.

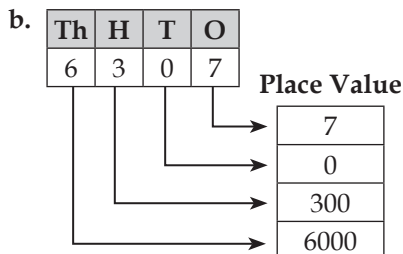
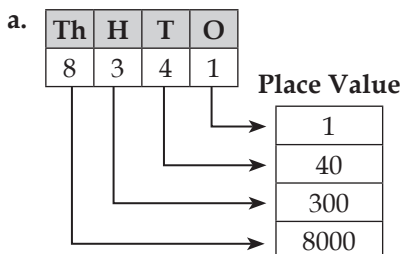
- a. 4,057 → Four thousand fifty-seven  
 b. 4,102 → Four thousand one hundred two.  
 c. 2,423 → Two thousand four hundred twenty three.  
 d. 5,022 → Five thousand twenty two.

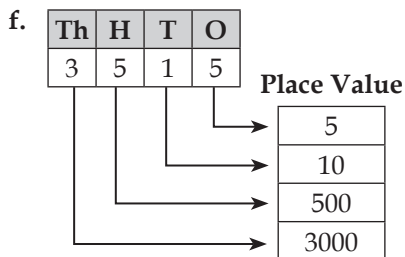
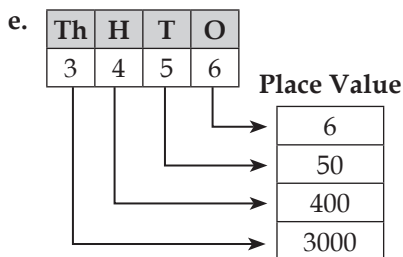
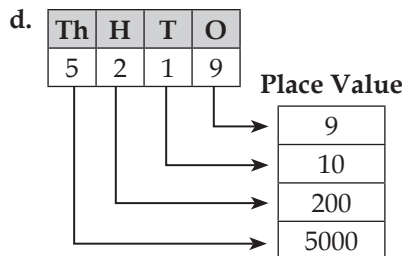
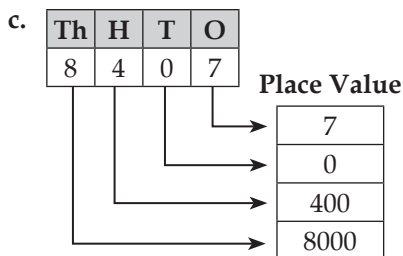
2. Draw and colour the beads in each abacus spike to represent the given numbers.



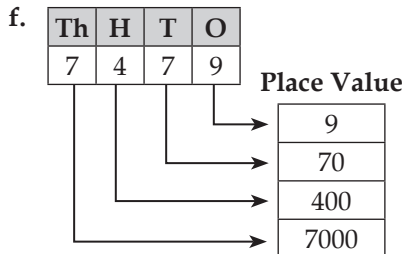
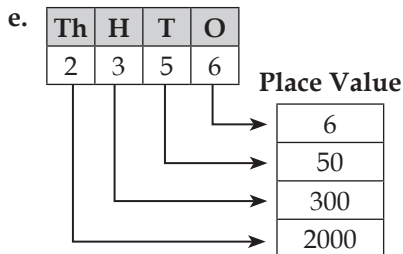
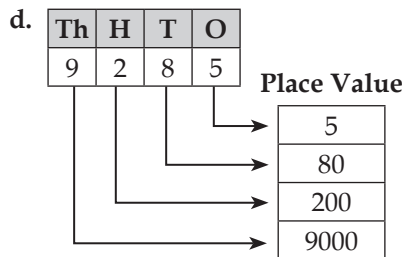
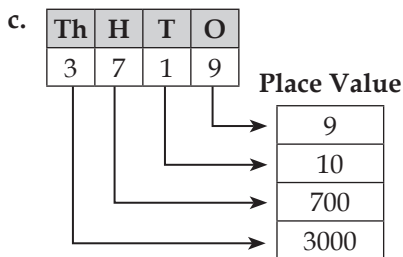
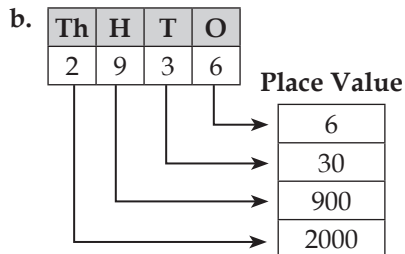
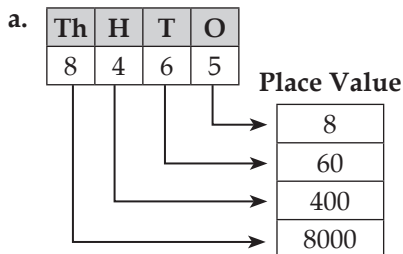
## Exercise 2D

1. Write the place value of each digit in the given numbers.





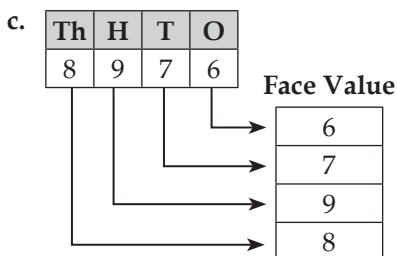
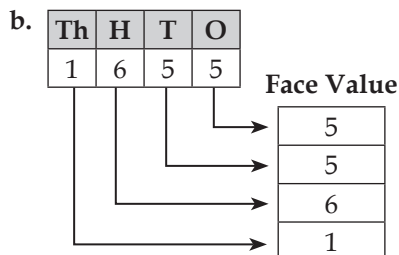
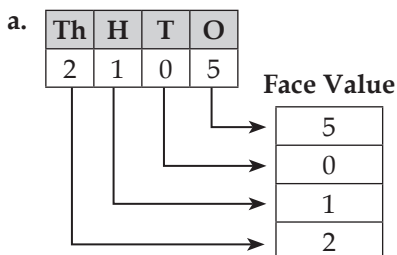
2. Write the number for the given place values.



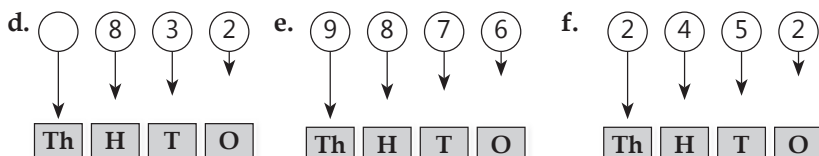
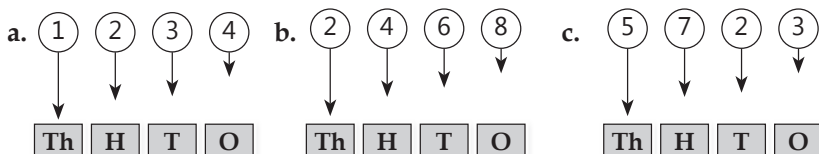
3. Write the place and place value of the underlined digit in the following table. One has been done for you.

|    | Number        | Place of the Digit | Place Value |
|----|---------------|--------------------|-------------|
| a. | 624 <u>5</u>  | Ones               | 5           |
| b. | <u>4</u> 358  | Thousand           | 4           |
| c. | 24 <u>6</u> 8 | Tens               | 6           |
| d. | 8 <u>7</u> 31 | Hundreds           | 7           |
| e. | <u>3</u> 114  | Thousand           | 3           |
| f. | 978 <u>6</u>  | Ones               | 6           |

4. Write the face Value of each digit of the following number.



5. Write the place of each digit in the given numbers.



## Exercise 2 E

1. Write each of the following numbers in expanded form. One has been done for you.

- a.  $4000 + 200 + 80 + 5$                       b.  $6000 + 100 + 90 + 8$   
 c.  $2000 + 400 + 60 + 8$                       d.  $3000 + 400 + 60 + 5$   
 e.  $8000 + 400 + 70 + 2$                       f.  $6000 + 200 + 40 + 5$

2. Write each of the following expanded form in short form. One has been done for you.

- a. 3172                      b. 9843                      c. 8432  
 d. 7796                      e. 3687

3. Fill in the blanks.

- a.  $4000 + 600 + 30 + 5$                       b.  $7000 + 200 + 30 + 0$   
 c.  $9000 + 700 + 10 + 5$                       d.  $3000 + 700 + 50 + 2$

## Exercise 2 F

1. Colour the smaller number in yellow in each of the following pair.

- a.                       b.                       c.   
 d.                       e. 

2. Colour the greater number in red in each of the following pair.

- a. 2786 1486                      b. 9821 1208                      c. 6140 7230  
 d. 8650 7860                      e. 8296 1150                      f. 6339 2786

3. Compare the numbers and put the correct symbol  $<$ ,  $>$  or  $=$ .

- a. 248  $<$  9682                      b. 4444  $<$  9999                      c. 3210  $<$  9052  
 d. 4268  $<$  5928                      e. 7860  $>$  6850                      f. 2869  $<$  8269  
 g. 3228  $>$  1744                      h. 3854  $>$  1221                      i. 1111  $<$  7777

4. Circle the greatest number and cross out the smallest number in each part.

- a. 2514                      7250                      5286                      8521                      2500  
 b. 6571                      8591                      6255                      8544                      6521

## Exercise 2G

- Arrange the following numbers in ascending order. One has been done for you.
  - $2050 < 3524 < 5775 < 8965$
  - $2532 < 4028 < 5701 < 9518$
  - $2552 < 3001 < 4638 < 5030$
  - $1479 < 2284 < 5966 < 8835$
  - $6780 < 7680 < 8760 < 9560$
- Arrange the following numbers in descending order. One has been done for you.
  - $8760 > 7860 > 6870 > 5320$
  - $7480 > 5361 > 3840 > 1120$
  - $6144 > 5374 > 5296 > 2556$
  - $2250 > 1768 > 1700 > 0052$
  - $9041 > 5109 > 4019 > 1905$

## Exercise 2 H

- Form the greatest and the smallest numbers using the given digits.

| 5, 8, 6, 9 | <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <th colspan="4" style="padding: 5px;">Greatest</th> </tr> <tr> <td style="width: 25px; height: 25px;"></td> <td style="width: 25px; height: 25px;"></td> <td style="width: 25px; height: 25px;"></td> <td style="width: 25px; height: 25px;"></td> </tr> </table> | Greatest |  |  |  |  |  |  |  | <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <th colspan="4" style="padding: 5px;">Smallest</th> </tr> <tr> <td style="width: 25px; height: 25px;"></td> <td style="width: 25px; height: 25px;"></td> <td style="width: 25px; height: 25px;"></td> <td style="width: 25px; height: 25px;"></td> </tr> </table> | Smallest |  |  |  |  |  |  |  |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--|--|--|--|--|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--|--|--|--|--|--|--|
| Greatest   |                                                                                                                                                                                                                                                                                                                                            |          |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                            |          |  |  |  |  |  |  |  |
|            |                                                                                                                                                                                                                                                                                                                                            |          |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                            |          |  |  |  |  |  |  |  |
| Smallest   |                                                                                                                                                                                                                                                                                                                                            |          |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                            |          |  |  |  |  |  |  |  |
|            |                                                                                                                                                                                                                                                                                                                                            |          |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                            |          |  |  |  |  |  |  |  |

- Complete the given table.

|    | Digits     | Greatest Number | Smallest Number |
|----|------------|-----------------|-----------------|
| a. | 8, 2, 6, 0 | 8620            | 2068            |
| b. | 1, 7, 5, 8 | 8751            | 1578            |
| c. | 5, 4, 6, 7 | 7654            | 4567            |
| d. | 7, 1, 3, 5 | 7531            | 1357            |

## HOTS

- Fill in the blanks.

- Smallest 3 digit number = 100  
 The number one more than the smallest 3 digit number =  $100 + 1$   
 The number is 101.
- 1111, 2222, 3333, 4444, 5555, 6666, 7777, 8888.

- Find the successor of the greatest 3-digit number. Is it the smallest 4-digit number?

Greatest 3 digit number = 999  
 Successor =  $999 + 1 = 1000$   
 Yes, it is smallest 4 digit number.

3. Find the predecessor of the smallest 4-digit number. Is it the greatest 3-digit number?

a. Smallest 4 digit number = 1000  
 Predecessor =  $1000 - 1 = 999$

Yes, it greatest 3 digit number.

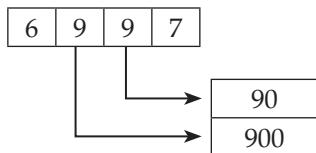
4. Select the numbers from the bracket and put at the correct place.

- a. 2925                      b. 9532

## MENTAL MATHS

1. What is the sum of the place values of the two 9's in the number 6997?

9's place value in the number 6997.



Sum of two 9's place value = 

|   |   |   |
|---|---|---|
| 9 | 0 | 0 |
| 9 | 9 | 0 |

2. 100 more than 999 is greater than 1999.

|   |   |   |   |
|---|---|---|---|
|   | 9 | 9 | 9 |
| + | 1 | 0 | 0 |
| 1 | 0 | 9 | 9 |

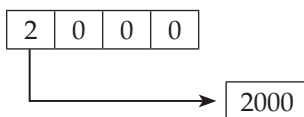
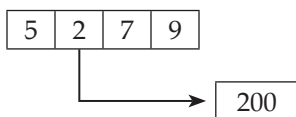
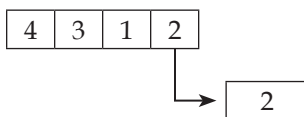
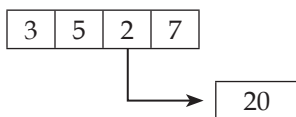
$1099 < 1999$

Thus, the statement is false.

3. Fill in the blanks the missing terms of the following sequence.

2243, 2343, 2443, 2543, 2643

4. In which of the following numbers, the digit 2 has the greatest place value?



Thus, in the number 2000, the digit 2 has the greatest place value.

# Roman Numerals

## Exercise 3A

- Write the Roman Numerals for the following.
  - II
  - V
  - X
  - XII
  - XVII
  - XXII
  - XXXIV
  - XXX
  - VII
  - XIII
  - XXVII
  - XXXVIII
- Write the Hindu-Arabic numerals for the following.
  - 9
  - 16
  - 30
  - 8
  - 6
  - 19
  - 25
  - 22
- Put a tick mark (✓) for right and cross mark (✗) for wrong numerals.
  - ✓
  - ✓
  - ✓
  - ✓
  - ✓
  - ✗
  - ✗
  - ✓
- Match the Hindu-Arabic numeral with its Roman number.
  - D
  - G
  - A
  - F
  - B
  - E
  - C
- Complete the following table. Some has been done for you.

| Roman expression | Hindu-Arabic expression | Result | Result in Roman number |
|------------------|-------------------------|--------|------------------------|
| a. XI + IX       | 11 + 9                  | 20     | XX                     |
| b. VI + IX       | 6 + 9                   | 15     | XV                     |
| c. XIII + II     | 13 + 2                  | 15     | XV                     |
| d. IX - VII      | 9 - 7                   | 2      | II                     |
| e. XXX - XVI     | 30 - 16                 | 14     | XIV                    |
| f. XXX - XX      | 30 - 20                 | 10     | X                      |

- Compare the Roman and Hindu-Arabic numerals and put '<', '>' or '='.
 

|          |                                   |    |        |                                     |    |          |                                   |    |
|----------|-----------------------------------|----|--------|-------------------------------------|----|----------|-----------------------------------|----|
| a. XXX   | <input type="text"/>              | 28 | b. XIV | <input type="text"/>                | 21 | c. XXIX  | <input type="text"/>              | 26 |
| 30       | <input type="text" value="&gt;"/> | 28 | 14     | <input type="text" value="&gt;"/>   | 21 | 29       | <input type="text" value="&gt;"/> | 26 |
| d. XVIII | <input type="text"/>              | 9  | e. III | <input type="text"/>                | 3  | f. XVII  | <input type="text"/>              | 20 |
| 18       | <input type="text" value="&gt;"/> | 9  | 3      | <input "="" type="text" value="="/> | 3  | 17       | <input type="text" value="&lt;"/> | 20 |
| g. VI    | <input type="text"/>              | 10 | h. XIV | <input type="text"/>                | 20 | i. XXXIV | <input type="text"/>              | 15 |
| 6        | <input type="text" value="&lt;"/> | 10 | 14     | <input type="text" value="&lt;"/>   | 20 | 34       | <input type="text" value="&gt;"/> | 15 |

**7. Arrange the following Roman numerals in ascending and descending orders.**

|                                | Ascending Order                 | Descending Order                |
|--------------------------------|---------------------------------|---------------------------------|
| a. VI, II, X, IV, IX           | II < IV < VI < IX < X           | X > IX > VI > IV > II           |
| b. XXXIX, XX, VIII, XXIII, III | III < VIII < XX < XXIII < XXXIX | XXXIX > XXIII > XX > VIII > III |
| c. XXVI, VII, XXI, IX          | VII < IX < XXI < XXVI           | XXVI > XXI > IX > VII           |
| d. XX, VI, IV, XIV             | IV < VI < XIV < XX              | XX > XIV > VI > IV              |

## Addition

Exercise 4 A

1. Add the following.

a.  $84 + 5 = \boxed{89}$

b.  $70 + 10 = \boxed{80}$

c.  $100 + 40 = \boxed{140}$

d.

| H | T | O   |
|---|---|-----|
|   |   |     |
| 5 | 0 | 6   |
| + |   | 2 3 |
| 5 | 2 | 9   |

e.

| H | T | O   |
|---|---|-----|
| 1 |   |     |
| 2 | 9 | 0   |
| + | 4 | 5 8 |
| 7 | 4 | 8   |

f.

| H | T | O   |
|---|---|-----|
| 1 | 1 |     |
| 3 | 4 | 7   |
| + | 3 | 5 9 |
| 7 | 0 | 6   |

g.

| H | T | O   |
|---|---|-----|
| 1 | 1 |     |
| 4 | 4 | 8   |
| + | 3 | 5 4 |
| 8 | 0 | 2   |

h.

| H | T | O   |
|---|---|-----|
| 1 | 1 |     |
| 2 | 8 | 7   |
| + | 4 | 5 6 |
| 7 | 4 | 3   |

i.

| H | T | O   |
|---|---|-----|
|   |   |     |
| 3 | 9 | 5   |
| + | 4 | 0 2 |
| 7 | 9 | 7   |

j.

| H | T | O   |
|---|---|-----|
| 1 | 1 |     |
| 7 | 2 | 8   |
| + | 1 | 9 7 |
| 9 | 2 | 5   |

k.

| H | T | O   |
|---|---|-----|
| 1 | 1 |     |
| 4 | 6 | 2   |
| + | 1 | 9 8 |
| 6 | 6 | 0   |

2. Add the following in expanded form.

a.

| H | T | O   |
|---|---|-----|
| 3 | 0 | 1   |
| + | 1 | 9 8 |
|   |   |     |

$$\begin{aligned} &\rightarrow 300 + 0 + 1 \\ &\rightarrow 100 + 90 + 8 \\ &\quad 400 + 90 + 9 \\ &= 499 \end{aligned}$$

b.

| H | T | O   |
|---|---|-----|
| 7 | 1 | 4   |
| + | 1 | 9 6 |
|   |   |     |

$$\begin{aligned} &\rightarrow 700 + 10 + 4 \\ &\rightarrow 100 + 90 + 6 \\ &\quad 800 + 100 + 10 \\ &\quad 900 + 1 + 0 \\ &= 910 \end{aligned}$$

c.

| H | T | O   |
|---|---|-----|
| 2 | 3 | 4   |
| + | 3 | 4 2 |
|   |   |     |

$$\begin{aligned} &\rightarrow 200 + 30 + 4 \\ &\rightarrow 300 + 40 + 2 \\ &\quad 500 + 70 + 6 \\ &= 576 \end{aligned}$$

d.

| H | T | O   |
|---|---|-----|
| 4 | 3 | 6   |
| + | 4 | 7 5 |
|   |   |     |

$$\begin{aligned} &\rightarrow 400 + 30 + 6 \\ &\rightarrow 400 + 70 + 5 \\ &\quad 800 + 100 + 11 \\ &\quad 900 + 1 + 1 \\ &= 911 \end{aligned}$$

3. Arrange the following numbers in columns and add.

a.

| H | T | O   |
|---|---|-----|
|   |   |     |
| 3 | 1 | 2   |
| + | 1 | 7 5 |
| 4 | 8 | 7   |

b.

| H | T | O   |
|---|---|-----|
| 1 | 1 |     |
| 3 | 4 | 8   |
| + | 4 | 7 9 |
| 8 | 2 | 7   |

c.

| H | T | O   |
|---|---|-----|
|   | 1 |     |
| 2 | 7 | 1   |
| + | 4 | 0 9 |
| 6 | 8 | 0   |

d.

| H | T | O   |
|---|---|-----|
|   |   |     |
| 4 | 2 | 1   |
| + | 1 | 3 7 |
| 5 | 5 | 8   |

e.

|   | H | T | O |
|---|---|---|---|
|   | 1 | 1 |   |
|   | 2 | 6 | 6 |
| + | 3 | 4 | 8 |
|   | 6 | 1 | 4 |

f.

|   | H | T | O |
|---|---|---|---|
|   | 1 | 1 |   |
|   | 3 | 5 | 5 |
| + | 3 | 9 | 7 |
|   | 7 | 5 | 2 |

g.

|   | H | T | O |
|---|---|---|---|
|   | 1 |   |   |
|   | 5 | 7 | 3 |
| + | 3 | 6 | 5 |
|   | 9 | 3 | 8 |

h.

|   | H | T | O |
|---|---|---|---|
|   | 1 | 1 |   |
|   | 3 | 1 | 2 |
| + | 5 | 9 | 9 |
|   | 9 | 1 | 1 |

### Exercise 4 B

1. Fill in the blanks using the appropriate properties of addition.

a.  $507 + 0 = \boxed{507}$

b.  $\boxed{758} + 1 = 759$

c.  $6784 + 1 = \boxed{6785}$

d.  $309 + 157 = 157 + \boxed{309}$

e.  $1855 + \boxed{400} = 400 + 1855$

f.  $\boxed{0} + 597 = 597$

g.  $988 + \boxed{0} = 988$

h.  $\boxed{0} + 4270 = 4270$

i.  $8752 + (280 + 251) = (\boxed{8752} + 280) + 351$

### Exercise 4 C

1. Find the sum.

a.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 5  | 8 | 6 | 4 |
| + | 2  | 1 | 3 | 2 |
|   | 7  | 9 | 9 | 6 |

b.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 2  | 4 | 3 | 2 |
| + | 1  | 4 | 6 | 2 |
|   | 3  | 8 | 9 | 4 |

c.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 4  | 9 | 2 | 6 |
| + | 4  | 0 | 2 | 3 |
|   | 8  | 9 | 4 | 9 |

d.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 5  | 3 | 4 | 6 |
| + | 3  | 5 | 1 | 2 |
|   | 8  | 8 | 5 | 8 |

e.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 3  | 2 | 1 | 7 |
| + | 2  | 2 | 1 | 1 |
|   | 5  | 4 | 2 | 8 |

f.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 2  | 3 | 6 | 9 |
| + | 7  | 3 | 1 | 0 |
|   | 9  | 6 | 7 | 9 |

g.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 6  | 7 | 8 | 8 |
| + | 1  | 2 | 0 | 1 |
|   | 7  | 9 | 8 | 9 |

h.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 4  | 5 | 0 | 9 |
| + | 1  | 2 | 8 | 0 |
|   | 5  | 7 | 8 | 9 |

2. Add the following.

a.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 2  | 5 | 4 | 1 |
| + | 1  | 0 | 0 | 0 |
|   | 3  | 5 | 4 | 1 |

b.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 7  | 1 | 1 | 4 |
| + | 2  | 3 | 7 | 2 |
|   | 9  | 4 | 8 | 6 |

c.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 6  | 2 | 8 | 0 |
| + | 2  | 7 | 0 | 4 |
|   | 8  | 9 | 8 | 4 |

d.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 4  | 6 | 7 | 2 |
| + | 4  | 2 | 2 | 1 |
|   | 8  | 8 | 9 | 3 |

e.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 4  | 4 | 7 | 2 |
| + | 5  | 2 | 2 | 6 |
|   | 9  | 6 | 9 | 8 |

f.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 4  | 6 | 0 | 5 |
| + | 2  | 2 | 6 | 3 |
|   | 6  | 8 | 6 | 8 |

g.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 1  | 0 | 1 | 0 |
| + | 3  | 8 | 6 | 4 |
|   | 4  | 8 | 7 | 4 |

h.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 1  | 3 | 7 | 4 |
| + | 1  | 5 | 1 | 3 |
|   | 2  | 8 | 8 | 7 |

i.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 6  | 4 | 5 | 3 |
| + | 3  | 5 | 4 | 6 |
|   | 9  | 9 | 9 | 9 |

j.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 2  | 2 | 3 | 9 |
| + | 5  | 4 | 4 | 0 |
|   | 7  | 6 | 7 | 9 |

k.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 5  | 2 | 2 | 3 |
| + | 1  | 6 | 3 | 0 |
|   | 6  | 8 | 5 | 3 |

l.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 1  | 0 | 2 | 0 |
| + | 3  | 4 | 4 | 6 |
|   | 4  | 4 | 6 | 6 |

m.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 1  | 5 | 0 | 4 |
| + | 2  | 4 | 0 | 2 |
|   | 3  | 9 | 0 | 6 |

n.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 1  | 1 | 3 | 2 |
| + | 8  | 0 | 4 | 7 |
|   | 9  | 1 | 7 | 9 |

o.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 8  | 4 | 0 | 6 |
| + | 1  | 0 | 2 | 1 |
|   | 9  | 4 | 2 | 7 |

p.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 2  | 3 | 1 | 1 |
| + | 1  | 3 | 2 | 4 |
|   | 3  | 6 | 3 | 5 |

q.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 6  | 3 | 6 | 2 |
| + | 1  | 4 | 1 | 6 |
|   | 7  | 7 | 7 | 8 |

r.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 2  | 2 | 2 | 2 |
| + | 5  | 4 | 2 | 5 |
|   | 7  | 6 | 4 | 7 |

s.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 7  | 0 | 7 | 5 |
| + | 1  | 2 | 2 | 4 |
|   | 8  | 2 | 9 | 9 |

t.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 1  | 2 | 3 | 1 |
| + | 1  | 4 | 6 | 1 |
|   | 2  | 6 | 9 | 2 |

3. Arrange in columns and find the sum. Do these sums in your notebook.

a.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 1  | 2 | 3 | 4 |
| + | 4  | 1 | 2 | 0 |
|   | 5  | 3 | 5 | 4 |

b.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 6  | 5 | 8 | 2 |
| + | 1  | 2 | 1 | 7 |
|   | 7  | 7 | 9 | 9 |

c.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 6  | 2 | 3 | 0 |
| + | 3  | 7 | 5 | 1 |
|   | 9  | 9 | 8 | 1 |

d.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 1  | 4 | 0 | 5 |
| + | 2  | 5 | 9 | 4 |
|   | 3  | 9 | 9 | 9 |

e.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 2  | 2 | 2 | 2 |
| + | 4  | 4 | 4 | 4 |
|   | 6  | 6 | 6 | 6 |

f.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 3  | 3 | 3 | 3 |
| + | 2  | 2 | 2 | 2 |
|   | 5  | 5 | 5 | 5 |

g.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 8  | 8 | 8 | 8 |
| + | 1  | 1 | 1 | 1 |
|   | 9  | 9 | 9 | 9 |

h.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 7  | 7 | 7 | 7 |
| + |    | 2 | 2 | 2 |
|   | 7  | 9 | 9 | 9 |

### Exercise 4 D

1. Add the following numbers.

a.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 2  | 1 | 3 | 1 |
|   | 3  | 1 | 2 | 1 |
| + | 2  | 4 | 3 | 2 |
|   | 7  | 6 | 8 | 4 |

b.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 4  | 2 | 1 | 3 |
|   | 2  | 1 | 1 | 4 |
| + | 1  | 6 | 3 | 2 |
|   | 7  | 9 | 5 | 9 |

c.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 2  | 4 | 1 | 3 |
|   | 1  | 3 | 1 | 4 |
| + | 4  | 1 | 3 | 1 |
|   | 7  | 8 | 5 | 8 |

d.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 2  | 4 | 6 | 1 |
|   | 3  | 2 | 0 | 4 |
| + | 2  | 3 | 2 | 3 |
|   | 7  | 9 | 8 | 8 |

2. Add the following numbers.

a.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 4  | 2 | 1 | 1 |
|   | 3  | 2 | 2 | 2 |
| + | 1  | 0 | 0 | 4 |
|   | 8  | 4 | 3 | 7 |

b.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 7  | 2 | 1 | 3 |
|   | 1  | 2 | 3 | 4 |
| + | 1  | 3 | 2 | 1 |
|   | 9  | 7 | 6 | 8 |

c.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 3  | 2 | 1 | 1 |
|   | 4  | 2 | 3 | 3 |
| + | 2  | 1 | 4 | 4 |
|   | 9  | 5 | 8 | 8 |

d.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 7  | 0 | 0 | 0 |
|   | 1  | 0 | 0 | 0 |
| + | 1  | 0 | 0 | 0 |
|   | 9  | 0 | 0 | 0 |

e.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 2  | 4 | 3 | 2 |
|   | 1  | 1 | 3 | 2 |
| + | 2  | 3 | 2 | 3 |
|   | 5  | 8 | 8 | 7 |

f.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 3  | 1 | 2 | 1 |
|   | 3  | 2 | 1 | 4 |
| + | 1  | 2 | 1 | 4 |
|   | 7  | 5 | 4 | 9 |

g.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 1  | 2 | 1 | 1 |
|   | 1  | 2 | 2 | 2 |
| + | 1  | 2 | 3 | 2 |
|   | 3  | 6 | 6 | 5 |

h.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 7  | 2 | 1 | 1 |
|   | 1  | 1 | 2 | 2 |
| + | 1  | 3 | 2 | 2 |
|   | 9  | 6 | 5 | 5 |

i.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 3  | 2 | 5 | 1 |
|   | 1  | 5 | 2 | 1 |
| + | 3  | 2 | 1 | 5 |
|   | 7  | 9 | 8 | 7 |

j.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 2  | 2 | 2 | 2 |
|   | 1  | 1 | 1 | 1 |
| + | 3  | 3 | 3 | 3 |
|   | 6  | 6 | 6 | 6 |

### Exercise 4 E

1. Add the following numbers using the place value of each digit.

a.  $20 + 5 + 30 + 4$

$= (20 + 30) + (5 + 4)$

$= 50 + 9$

$= 59$

b.  $30 + 9 + 70$

$= (30 + 70) + 9$

$= 100 + 9$

$= 109$

c.  $70 + 5 + 30 + 4$

$$= (70 + 30) + (5 + 4)$$

$$= 100 + 9$$

$$= 109$$

d.  $40 + 5 + 20 + 2$

$$= (40 + 20) + (5 + 2)$$

$$= 60 + 7$$

$$= 67$$

e.  $20 + 8 + 60 + 2$

$$= (20 + 60) + (8 + 2)$$

$$= 60 + 20$$

$$= 70$$

f.  $30 + 4 + 60 + 1$

$$= (30 + 60) + (4 + 1)$$

$$= 90 + 5$$

$$= 95$$

g.  $100 + 50 + 6 + 300 + 2$

$$= (100 + 300) + (50 + 0) + (6 + 2)$$

$$= 400 + 50 + 8$$

$$= 458$$

h.  $100 + 70 + 5 + 200 + 10 + 3$

$$= (100 + 200) + (70 + 10) + (5 + 3)$$

$$= 300 + 80 + 8$$

$$= 388$$

i.  $100 + 80 + 4 + 300 + 4$

$$= (100 + 300) + (80 + 0) + (4 + 4)$$

$$= 400 + 80 + 8$$

$$= 488$$

j.  $2000 + 500 + 30 + 5 + 2000 + 200 + 40 + 2$

$$= (2000 + 2000) + (500 + 200) + (30 + 40) + (5 + 2)$$

$$= 4000 + 700 + 70 + 7$$

$$= 4777$$

k.  $2000 + 400 + 20 + 8 + 3000 + 200 + 60 + 1$

$$= (2000 + 3000) + (400 + 200) + (20 + 60) + (1 + 8)$$

$$= 5000 + 600 + 80 + 9$$

$$= 5681$$

l.  $7000 + 600 + 20 + 4 + 2000 + 300 + 50 + 2$

$$= (7000 + 2000) + (600 + 300) + (20 + 50) + (4 + 2)$$

$$= (9000) + 900 + 70 + 6$$

$$= 9776$$

## Exercise 4 F

1. Add the following.

a.

| Th | H | T | O |
|----|---|---|---|
| 5  | 3 | 4 | 5 |
| +  | 1 | 0 | 0 |
|    | 6 | 3 | 5 |

b.

| Th | H | T | O |
|----|---|---|---|
| 2  | 0 | 7 | 9 |
| +  | 2 | 0 | 0 |
|    | 4 | 0 | 9 |

c.

| Th | H | T | O |
|----|---|---|---|
| 4  | 8 | 8 | 8 |
| +  | 3 | 0 | 0 |
|    | 7 | 8 | 8 |

d.

| Th | H | T | O |
|----|---|---|---|
| 4  | 2 | 9 | 3 |
| +  | 4 | 0 | 0 |
|    | 8 | 2 | 3 |

2. Add and fill in the boxes.

a.

| Th | H | T | O |
|----|---|---|---|
| 6  | 2 | 2 | 8 |
| +  | 1 | 0 | 0 |
|    | 7 | 2 | 8 |

b.

| Th | H | T | O |
|----|---|---|---|
| 3  | 0 | 7 | 9 |
| +  | 1 | 0 | 0 |
|    | 4 | 0 | 9 |

c.

| Th | H | T | O |
|----|---|---|---|
| 8  | 3 | 4 | 5 |
| +  | 1 | 0 | 0 |
|    | 9 | 3 | 5 |

d.

| Th | H | T | O |
|----|---|---|---|
| 2  | 4 | 6 | 8 |
| +  | 1 | 0 | 0 |
|    | 3 | 4 | 8 |

e.

| Th | H | T | O |
|----|---|---|---|
| 7  | 3 | 2 | 4 |
| +  | 1 | 0 | 0 |
|    | 8 | 3 | 4 |

f.

| Th | H | T | O |
|----|---|---|---|
| 6  | 5 | 4 | 2 |
| +  | 2 | 0 | 0 |
|    | 8 | 5 | 2 |

g.

| Th | H | T | O |
|----|---|---|---|
| 6  | 2 | 2 | 8 |
| +  | 3 | 0 | 0 |
|    | 9 | 2 | 8 |

i.

| Th | H | T | O |
|----|---|---|---|
| 2  | 2 | 4 | 8 |
| +  | 5 | 0 | 0 |
|    | 7 | 2 | 8 |

j.

| Th | H | T | O |
|----|---|---|---|
| 1  | 1 | 1 | 1 |
| +  | 8 | 0 | 0 |
|    | 9 | 1 | 1 |

k.

| Th | H | T | O |
|----|---|---|---|
| 1  | 2 | 2 | 8 |
|    | 1 | 0 | 0 |
| +  | 1 | 0 | 0 |
|    | 3 | 2 | 8 |

l.

| Th | H | T | O |
|----|---|---|---|
| 6  | 3 | 3 | 8 |
|    | 1 | 0 | 0 |
| +  | 1 | 0 | 0 |
|    | 8 | 3 | 8 |

m.

| Th | H | T | O |
|----|---|---|---|
| 2  | 5 | 5 | 8 |
|    | 2 | 0 | 0 |
| +  | 3 | 0 | 0 |
|    | 7 | 5 | 8 |

n.

| Th | H | T | O |
|----|---|---|---|
| 4  | 4 | 4 | 4 |
|    | 2 | 0 | 0 |
| +  | 2 | 0 | 0 |
|    | 8 | 4 | 4 |

## Exercise 4 G

1. Add the following.

a.

| Th | H | T | O |
|----|---|---|---|
| 1  | 1 | 1 |   |
|    | 4 | 5 | 7 |
| +  | 3 | 5 | 3 |
|    | 8 | 1 | 0 |

b.

| Th | H | T | O |
|----|---|---|---|
| 1  | 1 | 1 |   |
|    | 3 | 2 | 8 |
| +  | 2 | 9 | 4 |
|    | 6 | 2 | 4 |

c.

| Th | H | T | O |
|----|---|---|---|
| 1  | 1 | 1 |   |
|    | 2 | 8 | 7 |
| +  | 6 | 7 | 5 |
|    | 9 | 6 | 0 |

d.

| Th | H | T | O |
|----|---|---|---|
| 1  |   |   |   |
|    | 7 | 4 | 2 |
| +  | 1 | 9 | 2 |
|    | 9 | 3 | 4 |

e.

| Th | H | T | O |
|----|---|---|---|
| 1  | 1 | 1 |   |
| 5  | 8 | 9 | 9 |
| +  | 1 | 1 | 1 |
|    | 7 | 0 | 1 |

f.

| Th | H | T | O |
|----|---|---|---|
|    | 1 | 1 |   |
| 3  | 6 | 9 | 9 |
| +  | 2 | 1 | 1 |
|    | 5 | 8 | 1 |

g.

| Th | H | T | O |
|----|---|---|---|
|    | 1 | 1 |   |
| 3  | 4 | 8 | 6 |
| +  | 2 | 2 | 1 |
|    | 5 | 7 | 0 |

h.

| Th | H | T | O |
|----|---|---|---|
| 1  | 1 | 1 |   |
| 5  | 8 | 6 | 7 |
| +  | 3 | 6 | 5 |
|    | 9 | 5 | 2 |

i.

| Th | H | T | O |
|----|---|---|---|
|    | 1 | 1 |   |
| 3  | 6 | 5 | 9 |
| +  | 2 | 0 | 8 |
|    | 5 | 7 | 4 |

j.

| Th | H | T | O |
|----|---|---|---|
|    | 1 | 1 |   |
| 3  | 5 | 6 | 6 |
| +  | 3 | 2 | 5 |
|    | 6 | 8 | 2 |

k.

| Th | H | T | O |
|----|---|---|---|
| 1  | 1 |   |   |
| 6  | 5 | 5 | 3 |
| +  | 2 | 4 | 5 |
|    | 9 | 0 | 0 |

l.

| Th | H | T | O |
|----|---|---|---|
| 1  | 1 | 1 |   |
| 4  | 2 | 6 | 8 |
| +  | 3 | 8 | 9 |
|    | 8 | 1 | 6 |

m.

| Th | H | T | O |
|----|---|---|---|
| 1  | 1 | 1 |   |
| 3  | 4 | 5 | 9 |
|    | 1 | 5 | 5 |
| +  | 2 | 2 | 3 |
|    | 7 | 2 | 4 |

n.

| Th | H | T | O |
|----|---|---|---|
| 1  | 1 | 1 |   |
| 4  | 3 | 2 | 2 |
|    | 1 | 5 | 9 |
| +  | 2 | 2 | 3 |
|    | 8 | 1 | 5 |

o.

| Th | H | T | O |
|----|---|---|---|
| 1  | 1 | 1 |   |
| 5  | 6 | 5 | 6 |
|    | 2 | 4 | 4 |
| +  | 1 | 1 | 2 |
|    | 9 | 2 | 2 |

p.

| Th | H | T | O |
|----|---|---|---|
|    | 1 | 1 |   |
| 4  | 3 | 0 | 9 |
|    | 1 | 2 | 9 |
| +  | 3 | 2 | 1 |
|    | 8 | 8 | 1 |

q.

| Th | H | T | O |
|----|---|---|---|
| 1  | 1 | 1 |   |
| 2  | 4 | 2 | 6 |
|    | 1 | 7 | 3 |
| +  | 3 | 6 | 8 |
|    | 7 | 8 | 4 |

r.

| Th | H | T | O |
|----|---|---|---|
| 1  | 2 | 1 |   |
| 1  | 2 | 7 | 6 |
|    | 3 | 6 | 9 |
| +  | 2 | 9 | 5 |
|    | 7 | 9 | 2 |

s.

| Th | H | T | O |
|----|---|---|---|
| 1  | 1 | 1 |   |
| 6  | 8 | 2 | 1 |
|    | 1 | 2 | 9 |
| +  | 1 | 4 | 6 |
|    | 9 | 5 | 8 |

t.

| Th | H | T | O |
|----|---|---|---|
| 2  | 2 | 2 |   |
| 2  | 9 | 9 | 9 |
|    | 3 | 7 | 7 |
| +  | 2 | 8 | 8 |
|    | 9 | 6 | 6 |

## 2. Add the following in your notebook.

a.

| Th | H | T | O |
|----|---|---|---|
|    | 1 | 2 |   |
| 2  | 6 | 4 | 9 |
|    | 3 | 5 | 4 |
| +  | 2 | 4 | 6 |
|    | 8 | 6 | 6 |

b.

| Th | H | T | O |
|----|---|---|---|
|    |   | 1 |   |
| 4  | 0 | 0 | 5 |
|    | 1 | 4 | 1 |
| +  | 3 | 0 | 0 |
|    | 8 | 4 | 2 |

c.

| Th | H | T | O |
|----|---|---|---|
|    | 1 | 1 |   |
| 2  | 1 | 7 | 5 |
|    | 3 | 7 | 3 |
| +  | 4 | 0 | 1 |
|    | 9 | 9 | 2 |

d.

| Th | H | T | O |
|----|---|---|---|
| 2  | 2 | 2 |   |
| 2  | 8 | 8 | 8 |
|    | 1 | 8 | 8 |
| +  | 3 | 8 | 8 |
|    | 8 | 6 | 6 |

e.

| Th | H | T | O |
|----|---|---|---|
| 2  | 4 | 3 | 2 |
|    | 4 | 2 | 2 |
| +  | 1 | 3 | 3 |
|    | 7 | 9 | 8 |

f.

| Th | H | T | O |
|----|---|---|---|
| 1  | 1 | 1 |   |
| 1  | 3 | 3 | 3 |
|    | 2 | 2 | 2 |
| +  | 3 | 6 | 6 |
|    | 7 | 2 | 2 |

## Word Problems

Solve the following word problems in your notebook.

1. Total montly expenditure of Mr. Gupta =  
 Total montly expenditure of Mrs. Gupta =  
 Total montly expenditure of both of then =

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 3  | 6 | 9 | 0 |
| + | 4  | 2 | 3 | 6 |
|   | 7  | 9 | 2 | 6 |

2. Population of men in a society =  
 Population of women in a society =  
 Population of children in a society =  
 Total population of society =

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 1  | 1 |   |   |
|   | 4  | 4 | 2 | 0 |
|   | 3  | 6 | 9 | 0 |
| + | 1  | 4 | 5 | 0 |
|   | 9  | 5 | 6 | 0 |

- 3.
- |   | Th | H | T | O |
|---|----|---|---|---|
|   | 1  | 1 | 1 |   |
|   | 5  | 4 | 2 | 8 |
| + | 3  | 6 | 9 | 8 |
|   | 9  | 1 | 2 | 6 |

that number is 9126.

4. People in a compartment =  
 People in another compartment =  
 People are in both compartment =

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 1  | 2 | 0 | 0 |
| + | 1  | 1 | 0 | 5 |
|   | 2  | 3 | 0 | 5 |

5. Number of pencils in a box =  
 Number of pencils in a carton =  
 Total number of pencils =

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 1  | 1 | 1 |   |
|   | 1  | 4 | 9 | 9 |
| + |    | 7 | 8 | 8 |
|   | 2  | 2 | 8 | 7 |

6. Number of boys in the event =  
 Number of girls in the event =  
 Total number of students in the event =

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 1  | 4 | 4 | 0 |
| + | 2  | 3 | 1 | 0 |
|   | 3  | 7 | 5 | 0 |

## HOTS

1. The smallest four digit number =  
 The greatest three digit number =  
 Sum of these =

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 1  | 0 | 0 | 0 |
| + |    | 9 | 9 | 9 |
|   | 1  | 9 | 9 | 9 |

2. A century =

a half century =

|   |   |   |   |
|---|---|---|---|
|   | 1 | 0 | 0 |
| + |   | 5 | 0 |
|   | 1 | 5 | 0 |

3.  $3069 + 2 =$  successor of 3069

4.  $2400 + 50 + 20$

=  $2400 + 70$

= 2470

## Mental Maths

### 1. Fill in the blanks.

a.  $1234 + 5678 = 5678 + 1234$

b.  $9999 + 0 = 9999$

c.  $2468 + 3690 = 3690 + 2468$

d.  $8653 + 1 = 8654$

e.  $9633 + 4829 = 4829 + 9633$

f.  $6371 + 0 = 6371$

g.  $1064 + 6388 = 6388 + 1064$

h.  $1 + 999 = 1000$

i.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 7  | 9 | 9 | 9 |
| + | 1  | 0 | 0 | 0 |
|   | 8  | 9 | 9 | 9 |

j.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 7  | 5 | 2 | 5 |
| + | 2  | 0 | 0 | 0 |
|   | 9  | 5 | 2 | 5 |

k.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 1  | 1 | 1 | 1 |
| + | 2  | 2 | 2 | 2 |
|   | 3  | 3 | 3 | 3 |

l.  $(2122 + 1211) + 3112 = 2122 + (1211 + 3112)$

m.  $(4375 + 1231) + 8666 = (1231 + 4375) + 8666$

# Subtraction

## Exercise 5 A

1. Subtract the following numbers.

a. 

|   |   |
|---|---|
|   | O |
|   | 7 |
| - | 5 |
|   | 2 |

b. 

|   |     |
|---|-----|
| T | O   |
| 9 | 5   |
| - | 7 4 |
|   | 2 1 |

c. 

|   |       |   |
|---|-------|---|
| H | T     | O |
| 8 | 7     | 6 |
| - | 5 7 4 |   |
|   | 3 0 2 |   |

d. 

|   |       |   |
|---|-------|---|
| H | T     | O |
| 9 | 8     | 9 |
| - | 5 0 7 |   |
|   | 4 8 2 |   |

2. Subtract the following using expanded form.

a. 

|   |     |
|---|-----|
| T | O   |
| 7 | 7   |
| - | 3 5 |
|   |     |

 $\rightarrow$   $70 + 7$   
 $\rightarrow$   $30 + 5$   
 $\rightarrow$   $40 + 2 = 42$

b. 

|   |     |
|---|-----|
| T | O   |
|   |     |
| 5 | 2   |
| - | 2 3 |
|   |     |

 $\rightarrow$   $50 + 2$   
 $\rightarrow$   $20 + 3$   
 $\rightarrow$   $20 + 9 = 29$

3. There are 362 mango trees and 151 jack fruit trees in an orchard. How many more mango trees are there than the jack fruit trees in the orchard?

Number of mango trees = 

|   |   |   |
|---|---|---|
| 3 | 6 | 2 |
|---|---|---|

  
Number of sack fruit trees = 

|   |   |   |   |
|---|---|---|---|
| - | 1 | 5 | 1 |
|---|---|---|---|

  
Difference between mango sack fruit tree = 

|   |   |   |
|---|---|---|
| 2 | 1 | 1 |
|---|---|---|

4. Subtract:

a. 

|   |       |                           |
|---|-------|---------------------------|
| H | T     | O                         |
|   | 4     | 12                        |
|   | 8     | <del>8</del> <del>2</del> |
| - | 2 3 5 |                           |
|   | 6 1 7 |                           |

b. 

|   |       |                           |
|---|-------|---------------------------|
| H | T     | O                         |
|   | 5     | 12                        |
|   | 5     | <del>8</del> <del>2</del> |
| - | 2 3 4 |                           |
|   | 3 2 8 |                           |

c. 

|   |       |   |
|---|-------|---|
| H | T     | O |
| 6 | 0     | 0 |
| - | 3 0 0 |   |
|   | 3 0 0 |   |

## Exercise 5 B

1. Fill in the blanks using the properties of subtraction.

a. 455

b. 0

c. 214

d. 777

e. 875

f. 666

2. Subtract the following.

a.  $378 - 0 = 378$

b.  $4760 - 4760 = 0$

c.  $425 - 1 = 424$

d.  $245 - 245 = 0$

e.  $625 - 1 = 624$

f.  $200 - 0 = 200$

### 3. Fill in the blanks using the properties of subtraction.

a. 0

b. number

c. 1

d. 2

### Exercise 5 C

#### 1. Subtract the following without regrouping.

a.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 8  | 5 | 2 | 6 |
| - | 2  | 1 | 1 | 5 |
|   | 6  | 4 | 1 | 1 |

b.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 7  | 9 | 9 | 6 |
| - | 4  | 5 | 3 | 1 |
|   | 3  | 4 | 6 | 5 |

c.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 9  | 9 | 6 | 6 |
| - | 6  | 6 | 3 | 3 |
|   | 3  | 3 | 3 | 3 |

d.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 8  | 3 | 4 | 5 |
| - | 3  | 1 | 2 | 1 |
|   | 5  | 2 | 2 | 4 |

e.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 7  | 9 | 3 | 5 |
| - | 1  | 6 | 1 | 2 |
|   | 6  | 3 | 2 | 3 |

f.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 2  | 7 | 5 | 2 |
| - | 1  | 4 | 2 | 1 |
|   | 1  | 3 | 3 | 1 |

g.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 9  | 6 | 3 | 2 |
| - | 5  | 4 | 3 | 1 |
|   | 4  | 2 | 0 | 1 |

h.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 6  | 9 | 4 | 7 |
| - | 4  | 3 | 3 | 6 |
|   | 2  | 6 | 1 | 1 |

i.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 8  | 2 | 9 | 8 |
| - | 3  | 1 | 8 | 4 |
|   | 5  | 1 | 1 | 4 |

j.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 8  | 6 | 9 | 3 |
| - | 2  | 4 | 8 | 1 |
|   | 6  | 2 | 1 | 2 |

k.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 2  | 9 | 7 | 1 |
| - | 1  | 3 | 4 | 1 |
|   | 1  | 6 | 3 | 0 |

l.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 4  | 9 | 8 | 7 |
| - | 2  | 3 | 4 | 5 |
|   | 2  | 6 | 4 | 2 |

m.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 8  | 5 | 7 | 8 |
| - | 4  | 0 | 0 | 0 |
|   | 4  | 5 | 7 | 8 |

n.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 9  | 5 | 6 | 7 |
| - | 2  | 0 | 0 | 0 |
|   | 7  | 5 | 6 | 7 |

o.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 3  | 9 | 3 | 5 |
| - | 3  | 0 | 0 | 0 |
|   | 0  | 9 | 3 | 5 |

p.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 5  | 9 | 5 | 9 |
| - | 5  | 0 | 0 | 0 |
|   | 0  | 9 | 5 | 9 |

#### 2. Subtract and fill in the boxes.

a.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 9  | 9 | 9 | 9 |
| - | 6  | 6 | 6 | 6 |
|   | 3  | 3 | 3 | 3 |

b.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 6  | 9 | 9 | 2 |
| - | 3  | 6 | 9 | 1 |
|   | 3  | 3 | 0 | 1 |

c.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 9  | 9 | 0 | 0 |
| - | 5  | 5 | 0 | 0 |
|   | 4  | 4 | 0 | 0 |

d.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 8  | 8 | 7 | 5 |
| - | 4  | 3 | 2 | 1 |
|   | 4  | 5 | 5 | 4 |

e.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 8  | 0 | 0 | 0 |
| - | 6  | 0 | 0 | 0 |
|   | 2  | 0 | 0 | 0 |

f.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 7  | 8 | 9 | 9 |
| - | 6  | 7 | 8 | 9 |
|   | 1  | 1 | 1 | 0 |

g.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 7  | 7 | 0 | 0 |
| - | 7  | 7 | 0 | 0 |
|   | 0  | 0 | 0 | 0 |

h.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 9  | 0 | 0 | 0 |
| - | 8  | 0 | 0 | 0 |
|   | 1  | 0 | 0 | 0 |

i.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 5  | 5 | 0 | 0 |
| - | 2  | 0 | 0 | 0 |
|   | 3  | 5 | 0 | 0 |

j.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 9  | 0 | 0 | 0 |
| - | 8  | 0 | 0 | 0 |
|   | 1  | 0 | 0 | 0 |

k.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 6  | 0 | 0 | 0 |
| - | 2  | 0 | 0 | 0 |
|   | 4  | 0 | 0 | 0 |

l.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 3  | 5 | 0 | 0 |
| - | 2  | 0 | 0 | 0 |
|   | 1  | 5 | 0 | 0 |

### 3. Solve the following.

a. The largest 3-digit number = 

|   |   |   |
|---|---|---|
| 9 | 9 | 9 |
|---|---|---|

  
 The smallest 3-digit number = 

|   |   |   |   |
|---|---|---|---|
| - | 1 | 0 | 0 |
|---|---|---|---|

  
 Difference = 

|   |   |   |
|---|---|---|
| 8 | 9 | 9 |
|---|---|---|

b. 

|   |              |              |              |
|---|--------------|--------------|--------------|
|   | 3            | 9            | 10           |
|   | <del>4</del> | <del>0</del> | <del>0</del> |
| - | 2            | 1            | 2            |
|   | 1            | 8            | 8            |

The number is 188.

### Exercise 5 D

#### 1. Subtract the following numbers by using place values of the digits. Do these sums in your notebook.

a. 

|   |   |   |
|---|---|---|
|   | T | O |
|   | 6 | 6 |
| - | 2 | 3 |
|   | 4 | 3 |

b. 

|   |   |   |
|---|---|---|
|   | T | O |
|   | 8 | 8 |
| - | 1 | 2 |
|   | 7 | 6 |

c. 

|   |   |   |   |
|---|---|---|---|
|   | H | T | O |
|   | 3 | 7 | 5 |
| - | 2 | 5 | 2 |
|   | 1 | 2 | 3 |

d. 

|   |   |   |
|---|---|---|
|   | T | O |
|   | 9 | 9 |
| - | 7 | 5 |
|   | 2 | 4 |

e. 

|   |   |              |              |
|---|---|--------------|--------------|
|   | H | T            | O            |
|   |   | 14           |              |
|   |   | <del>4</del> | 10           |
|   | 2 | <del>5</del> | <del>0</del> |
| - |   | 6            | 1            |
|   | 2 | 8            | 9            |

f. 

|   |              |              |   |
|---|--------------|--------------|---|
|   | H            | T            | O |
|   | 3            | 16           |   |
|   | <del>4</del> | <del>0</del> | 0 |
| - | 2            | 8            | 0 |
|   | 1            | 8            | 0 |

g. 

|   |              |              |              |
|---|--------------|--------------|--------------|
|   | H            | T            | O            |
|   |              | 17           |              |
|   | 1            | <del>7</del> | 10           |
|   | <del>2</del> | <del>8</del> | <del>0</del> |
| - |              | 8            | 2            |
|   | 1            | 9            | 8            |

h. 

|   |   |   |   |
|---|---|---|---|
|   | H | T | O |
|   | 2 | 8 | 5 |
| - | 1 | 7 | 0 |
|   | 1 | 1 | 5 |

i. 

|   |   |   |   |
|---|---|---|---|
|   | H | T | O |
|   | 3 | 2 | 5 |
| - | 1 | 2 | 5 |
|   | 2 | 0 | 0 |

j. 

|   |    |   |   |   |
|---|----|---|---|---|
|   | Th | H | T | O |
|   | 1  | 4 | 7 | 0 |
| - | 1  | 1 | 1 | 0 |
|   | 0  | 3 | 6 | 0 |

k. 

|   |              |              |   |   |
|---|--------------|--------------|---|---|
|   | Th           | H            | T | O |
|   | 1            | 12           |   |   |
|   | <del>2</del> | <del>2</del> | 2 | 5 |
| - | 1            | 6            | 2 | 0 |
|   | 0            | 6            | 0 | 5 |

l. 

|   |    |   |   |   |
|---|----|---|---|---|
|   | Th | H | T | O |
|   | 3  | 6 | 8 | 5 |
| - | 3  | 1 | 2 | 2 |
|   | 0  | 5 | 6 | 3 |

m. 

|   |    |   |   |   |
|---|----|---|---|---|
|   | Th | H | T | O |
|   | 6  | 5 | 2 | 0 |
| - | 4  | 2 | 2 | 0 |
|   | 2  | 3 | 0 | 0 |

n. 

|   |    |   |   |   |
|---|----|---|---|---|
|   | Th | H | T | O |
|   | 4  | 2 | 5 | 5 |
| - | 1  | 6 | 2 | 0 |
|   | 0  | 6 | 0 | 5 |

o. 

|   |    |   |   |   |
|---|----|---|---|---|
|   | Th | H | T | O |
|   | 8  | 5 | 4 | 9 |
| - | 3  | 3 | 3 | 3 |
|   | 5  | 2 | 1 | 6 |

## Exercise 5 E

### 1. Subtract the following.

a.

| Th | H            | T            | O            |
|----|--------------|--------------|--------------|
|    | 17           | 16           |              |
|    | <del>8</del> | <del>7</del> | <del>6</del> |
| -  |              | 8            | 7            |
|    | 8            | 9            | 9            |

b.

| Th           | H            | T            | O            |
|--------------|--------------|--------------|--------------|
| 4            | 10           | 8            | 11           |
| <del>5</del> | <del>0</del> | <del>9</del> | <del>1</del> |
| -            | 3            | 9            | 4            |
|              | 1            | 1            | 4            |

c.

| Th           | H            | T            | O            |
|--------------|--------------|--------------|--------------|
|              | 13           | 11           |              |
| 4            | <del>3</del> | <del>1</del> | 15           |
| <del>5</del> | <del>4</del> | <del>2</del> | <del>5</del> |
| -            | 3            | 8            | 6            |
|              | 1            | 5            | 5            |

d.

| Th           | H            | T            | O            |
|--------------|--------------|--------------|--------------|
| 3            | 18           | 8            | 12           |
| <del>4</del> | <del>8</del> | <del>9</del> | <del>2</del> |
| -            | 2            | 9            | 8            |
|              | 1            | 9            | 0            |

e.

| Th           | H            | T            | O            |
|--------------|--------------|--------------|--------------|
|              | 13           | 16           |              |
| 5            | <del>3</del> | <del>6</del> | 18           |
| <del>6</del> | <del>4</del> | <del>7</del> | <del>8</del> |
| -            | 2            | 9            | 7            |
|              | 3            | 4            | 9            |

f.

| Th           | H            | T            | O            |
|--------------|--------------|--------------|--------------|
| 4            | 9            | 9            | 10           |
| <del>5</del> | <del>0</del> | <del>0</del> | <del>0</del> |
| -            | 1            | 4            | 2            |
|              | 3            | 5            | 7            |

g.

| Th           | H            | T            | O            |
|--------------|--------------|--------------|--------------|
| 5            | 9            | 9            | 10           |
| <del>6</del> | <del>0</del> | <del>0</del> | <del>0</del> |
| -            | 1            | 2            | 4            |
|              | 4            | 7            | 5            |

h.

| Th           | H            | T            | O            |
|--------------|--------------|--------------|--------------|
| 7            | 9            | 9            | 10           |
| <del>8</del> | <del>0</del> | <del>0</del> | <del>0</del> |
| -            | 5            | 9            | 2            |
|              | 2            | 0            | 7            |

i.

| Th           | H            | T            | O            |
|--------------|--------------|--------------|--------------|
| 7            | 9            | 9            | 12           |
| <del>8</del> | <del>0</del> | <del>0</del> | <del>2</del> |
| -            | 4            | 9            | 3            |
|              | 3            | 0            | 6            |

j.

| Th           | H            | T            | O            |
|--------------|--------------|--------------|--------------|
|              | 14           |              |              |
| 5            | <del>4</del> | 9            | 10           |
| <del>6</del> | <del>5</del> | <del>0</del> | <del>0</del> |
| -            | 3            | 6            | 8            |
|              | 2            | 8            | 1            |

k.

| Th           | H            | T            | O            |
|--------------|--------------|--------------|--------------|
| 1            | 9            | 9            | 10           |
| <del>2</del> | <del>0</del> | <del>0</del> | <del>0</del> |
| -            | 1            | 9            | 5            |
|              | 0            | 0            | 4            |

l.

| Th | H | T | O |
|----|---|---|---|
| 9  | 0 | 9 | 9 |
| -  | 8 | 0 | 8 |
|    | 1 | 0 | 1 |

### 2. Subtract the following numbers.

a.

| Th | H | T | O |
|----|---|---|---|
| 7  | 0 | 0 | 0 |
| -  | 1 | 0 | 0 |
|    | 6 | 0 | 0 |

b.

| Th | H            | T            | O            |
|----|--------------|--------------|--------------|
|    | 2            | 9            | 15           |
| 3  | <del>3</del> | <del>0</del> | <del>5</del> |
| -  | 2            | 2            | 0            |
|    | 1            | 0            | 9            |

c.

| Th           | H            | T            | O            |
|--------------|--------------|--------------|--------------|
|              | 12           | 11           |              |
| 5            | <del>2</del> | <del>1</del> | 12           |
| <del>6</del> | <del>3</del> | <del>2</del> | <del>2</del> |
| -            | 3            | 4            | 5            |
|              | 2            | 8            | 6            |

d.

| Th | H | T            | O            |
|----|---|--------------|--------------|
|    |   | 2            | 14           |
| 1  | 2 | <del>3</del> | <del>4</del> |
| -  | 1 | 2            | 1            |
|    | 0 | 0            | 1            |

e.

| Th           | H            | T            | O            |
|--------------|--------------|--------------|--------------|
|              | 12           | 11           |              |
| 5            | <del>2</del> | <del>1</del> | 12           |
| <del>6</del> | <del>3</del> | <del>2</del> | <del>2</del> |
| -            | 3            | 4            | 5            |
|              | 2            | 8            | 6            |

f.

| Th | H            | T            | O            |
|----|--------------|--------------|--------------|
|    |              | 15           |              |
|    | 6            | <del>5</del> | 15           |
| 4  | <del>7</del> | <del>6</del> | <del>5</del> |
| -  | 2            | 6            | 7            |
|    | 2            | 0            | 8            |

g.

| Th | H            | T            | O |
|----|--------------|--------------|---|
|    | 7            | 10           |   |
| 3  | <del>8</del> | <del>0</del> | 7 |
| -  | 3            | 6            | 6 |
|    | 0            | 1            | 4 |

h.

| Th           | H            | T            | O            |
|--------------|--------------|--------------|--------------|
| 8            | 12           | 3            | 12           |
| <del>9</del> | <del>2</del> | <del>4</del> | <del>2</del> |
| -            | 2            | 3            | 2            |
|              | 6            | 9            | 1            |

i.

| Th           | H            | T | O |
|--------------|--------------|---|---|
| 7            | 15           |   |   |
| <del>8</del> | <del>5</del> | 2 | 2 |
| -            | 6            | 6 | 0 |
|              | 1            | 9 | 2 |

j.

| Th | H            | T            | O |
|----|--------------|--------------|---|
| 3  | 3            | 0            | 5 |
| -  | <del>2</del> | <del>2</del> | 0 |
|    | 1            | 1            | 0 |

3. Arrange the following numbers carefully and subtract.

a.

| Th | H            | T            | O |
|----|--------------|--------------|---|
|    | 3            | 10           |   |
| 7  | <del>4</del> | <del>0</del> | 0 |
| -  | 4            | 1            | 7 |
|    | 3            | 2            | 3 |

b.

| Th | H | T | O |
|----|---|---|---|
| 7  | 3 | 4 | 5 |
| -  | 7 | 3 | 4 |
|    | 0 | 0 | 0 |

c.

| Th           | H            | T | O |
|--------------|--------------|---|---|
| 5            | 14           |   |   |
| <del>6</del> | <del>4</del> | 3 | 9 |
| -            | 4            | 8 | 2 |
|              | 1            | 6 | 1 |

d.

| Th | H            | T            | O |
|----|--------------|--------------|---|
|    | 4            | 18           |   |
| 1  | <del>5</del> | <del>8</del> | 5 |
| -  | 1            | 2            | 9 |
|    | 0            | 2            | 9 |

e.

| Th           | H            | T            | O |
|--------------|--------------|--------------|---|
|              | 12           |              |   |
| 4            | <del>2</del> | 14           |   |
| <del>5</del> | <del>3</del> | <del>4</del> | 8 |
| -            | 1            | 4            | 8 |
|              | 3            | 8            | 6 |

f.

| Th           | H            | T | O |
|--------------|--------------|---|---|
| 8            | 14           |   |   |
| <del>9</del> | <del>4</del> | 3 | 6 |
| -            | 5            | 6 | 0 |
|              | 3            | 8 | 3 |

g.

| Th | H            | T            | O  |
|----|--------------|--------------|----|
| 6  | 10           | 7            | 10 |
| 7  | <del>0</del> | <del>8</del> | 0  |
| -  | 2            | 8            | 4  |
|    | 4            | 2            | 3  |

h.

| Th | H | T            | O            |
|----|---|--------------|--------------|
|    |   | 6            | 12           |
| 9  | 8 | <del>7</del> | <del>2</del> |
| -  | 3 | 0            | 2            |
|    | 6 | 8            | 4            |

4. Subtract the following numbers.

a.

| Th           | H            | T            | O            |
|--------------|--------------|--------------|--------------|
|              | 17           | 12           |              |
| 3            | <del>7</del> | <del>2</del> | 16           |
| <del>4</del> | <del>8</del> | <del>3</del> | <del>6</del> |
| -            | 2            | 8            | 9            |
|              | 1            | 9            | 3            |

b.

| Th | H | T | O |
|----|---|---|---|
| 3  | 9 | 7 | 6 |
| -  | 2 | 6 | 4 |
|    | 1 | 3 | 3 |

c.

| Th           | H            | T            | O            |
|--------------|--------------|--------------|--------------|
| 8            | 15           | 7            | 17           |
| <del>9</del> | <del>5</del> | <del>8</del> | <del>7</del> |
| -            | 2            | 9            | 3            |
|              | 6            | 6            | 4            |

d.

| Th           | H            | T            | O            |
|--------------|--------------|--------------|--------------|
| 6            | 9            | 9            | 10           |
| <del>7</del> | <del>0</del> | <del>0</del> | <del>0</del> |
| -            | 4            | 9            | 5            |
|              | 2            | 0            | 4            |

## Exercise 5 F

1. Subtract the following and check your answer.

a.

| Th           | H            | T            | O            |
|--------------|--------------|--------------|--------------|
|              | 11           | 15           |              |
| 5            | <del>1</del> | <del>5</del> | 17           |
| <del>6</del> | <del>2</del> | <del>6</del> | <del>7</del> |
| -            | 1            | 7            | 9            |
|              | 4            | 4            | 6            |

Checking

| Th | H | T | O |
|----|---|---|---|
| 1  | 1 | 1 |   |
| 4  | 4 | 6 | 9 |
| +  | 1 | 7 | 9 |
|    | 6 | 2 | 6 |

b.

| Th           | H            | T            | O            |
|--------------|--------------|--------------|--------------|
|              | 13           |              |              |
| 4            | <del>3</del> | 1            | 12           |
| <del>5</del> | <del>4</del> | <del>2</del> | <del>2</del> |
| -            | 2            | 7            | 8            |
|              | 2            | 6            | 3            |

Checking

| Th | H | T | O |
|----|---|---|---|
| 1  | 1 | 1 |   |
| 2  | 6 | 3 | 6 |
| +  | 2 | 7 | 8 |
|    | 5 | 4 | 2 |

2. Subtract the following numbers and check your answer.

a. 

| Th           | H            | T            | O            |
|--------------|--------------|--------------|--------------|
| 7            | 9            | 9            | 12           |
| <del>8</del> | <del>8</del> | <del>8</del> | <del>2</del> |

 - 

|   |   |   |   |
|---|---|---|---|
| 4 | 9 | 3 | 5 |
|---|---|---|---|

 + 

| Th | H | T | O |
|----|---|---|---|
| 1  | 1 | 1 |   |
| 3  | 0 | 6 | 7 |

 + 

|   |   |   |   |
|---|---|---|---|
| 4 | 9 | 3 | 5 |
| 8 | 0 | 0 | 2 |

b. 

| Th           | H            | T            | O            |
|--------------|--------------|--------------|--------------|
|              | 14           |              |              |
| 5            | <del>4</del> | 9            | 10           |
| <del>6</del> | <del>5</del> | <del>8</del> | <del>8</del> |

 - 

|   |   |   |   |
|---|---|---|---|
| 3 | 6 | 8 | 1 |
| 2 | 8 | 1 | 9 |

 + 

| Th | H | T | O |
|----|---|---|---|
| 1  | 1 | 1 |   |
| 2  | 8 | 1 | 9 |

 + 

|   |   |   |   |
|---|---|---|---|
| 3 | 6 | 8 | 1 |
| 6 | 5 | 0 | 0 |

c. 

| Th           | H            | T            | O            |
|--------------|--------------|--------------|--------------|
| 1            | 9            | 9            | 10           |
| <del>2</del> | <del>8</del> | <del>8</del> | <del>8</del> |

 - 

|   |   |   |   |
|---|---|---|---|
| 1 | 9 | 5 | 4 |
| 0 | 0 | 4 | 6 |

 + 

| Th | H | T | O |
|----|---|---|---|
| 1  | 1 | 1 |   |
| 1  | 9 | 5 | 4 |

 + 

|   |   |   |   |
|---|---|---|---|
|   |   | 4 | 6 |
| 2 | 0 | 0 | 0 |

d. 

| Th           | H            | T            | O            |
|--------------|--------------|--------------|--------------|
| 7            | 9            | 9            | 10           |
| <del>8</del> | <del>8</del> | <del>8</del> | <del>8</del> |

 - 

|   |   |   |   |
|---|---|---|---|
| 6 | 9 | 1 | 1 |
| 1 | 0 | 8 | 9 |

 + 

| Th | H | T | O |
|----|---|---|---|
| 1  | 1 | 1 |   |
| 1  | 0 | 8 | 9 |

 + 

|   |   |   |   |
|---|---|---|---|
| 6 | 9 | 1 | 1 |
| 2 | 0 | 0 | 0 |

e. 

| Th | H | T | O |
|----|---|---|---|
| 9  | 0 | 9 | 9 |
| 8  | 0 | 8 | 8 |

 - 

|   |   |   |   |
|---|---|---|---|
| 1 | 0 | 1 | 1 |
|---|---|---|---|

 + 

| Th | H | T | O |
|----|---|---|---|
| 1  | 0 | 1 | 1 |
| 8  | 0 | 8 | 8 |

 + 

|   |   |   |   |
|---|---|---|---|
| 9 | 0 | 9 | 9 |
|---|---|---|---|

f. 

| Th           | H            | T            | O            |
|--------------|--------------|--------------|--------------|
|              | 16           | 13           |              |
| 3            | <del>6</del> | <del>3</del> | 17           |
| <del>4</del> | <del>7</del> | <del>4</del> | <del>7</del> |

 - 

|   |   |   |   |
|---|---|---|---|
| 3 | 8 | 5 | 8 |
| 0 | 8 | 8 | 9 |

 + 

| Th | H | T | O |
|----|---|---|---|
| 1  | 1 | 1 |   |
| 3  | 8 | 5 | 8 |

 + 

|   |   |   |   |
|---|---|---|---|
|   | 8 | 8 | 9 |
| 4 | 7 | 4 | 7 |

g. 

| Th | H | T | O |
|----|---|---|---|
| 9  | 9 | 9 | 9 |
| 4  | 5 | 1 | 5 |

 - 

|   |   |   |   |
|---|---|---|---|
| 5 | 4 | 8 | 4 |
|---|---|---|---|

 + 

| Th | H | T | O |
|----|---|---|---|
| 5  | 4 | 8 | 4 |
| 4  | 5 | 1 | 5 |

 + 

|   |   |   |   |
|---|---|---|---|
| 9 | 9 | 9 | 9 |
|---|---|---|---|

h. 

| Th | H | T | O |
|----|---|---|---|
| 8  | 0 | 9 | 9 |
| 7  | 0 | 7 | 7 |

 - 

|   |   |   |   |
|---|---|---|---|
| 1 | 0 | 2 | 2 |
|---|---|---|---|

 + 

| Th | H | T | O |
|----|---|---|---|
| 1  | 0 | 2 | 2 |
| 7  | 0 | 7 | 7 |

 + 

|   |   |   |   |
|---|---|---|---|
| 8 | 0 | 9 | 9 |
|---|---|---|---|

i. 

| Th           | H            | T            | O            |
|--------------|--------------|--------------|--------------|
|              | 16           | 14           |              |
| 2            | <del>6</del> | <del>4</del> | 14           |
| <del>3</del> | <del>7</del> | <del>5</del> | <del>4</del> |

 - 

|   |   |   |   |
|---|---|---|---|
| 2 | 8 | 5 | 8 |
| 0 | 8 | 9 | 6 |

 + 

| Th | H | T | O |
|----|---|---|---|
| 1  | 1 | 1 |   |
| 2  | 8 | 5 | 8 |

 + 

|   |   |   |   |
|---|---|---|---|
|   | 8 | 9 | 6 |
| 3 | 7 | 5 | 4 |

j. 

| Th | H | T | O  |
|----|---|---|----|
| 6  | 9 | 9 | 10 |
| 7  | 0 | 0 | 0  |

 - 

|   |   |   |   |
|---|---|---|---|
| 3 | 9 | 5 | 5 |
| 3 | 0 | 4 | 5 |

 + 

| Th | H | T | O |
|----|---|---|---|
| 1  | 1 | 1 |   |
| 3  | 0 | 4 | 5 |

 + 

|   |   |   |   |
|---|---|---|---|
| 3 | 9 | 5 | 5 |
| 7 | 0 | 0 | 0 |

k. 

| Th | H | T | O |
|----|---|---|---|
| 7  | 8 | 9 | 5 |
| 6  | 8 | 4 | 2 |

 - 

|   |   |   |   |
|---|---|---|---|
| 1 | 0 | 5 | 3 |
|---|---|---|---|

 + 

| Th | H | T | O |
|----|---|---|---|
| 1  | 0 | 5 | 3 |
| 6  | 8 | 4 | 2 |

 + 

|   |   |   |   |
|---|---|---|---|
| 7 | 8 | 9 | 5 |
|---|---|---|---|

l. 

| Th | H | T | O |
|----|---|---|---|
| 7  | 9 | 8 | 7 |
|    | 3 | 4 | 2 |

 - 

|   |   |   |   |
|---|---|---|---|
| 7 | 6 | 4 | 5 |
|---|---|---|---|

 + 

| Th | H | T | O |
|----|---|---|---|
| 7  | 6 | 4 | 5 |
|    | 3 | 4 | 2 |

 + 

|   |   |   |   |
|---|---|---|---|
| 7 | 9 | 8 | 7 |
|---|---|---|---|

## Exercise 5 G

### 1. Solve the following.

a.

| Th | H | T | O |
|----|---|---|---|
| 6  | 1 | 2 | 4 |
| +  | 2 | 2 | 2 |
| 8  | 3 | 4 | 6 |

| Th           | H            | T | O |
|--------------|--------------|---|---|
| 7            | 13           |   |   |
| <del>8</del> | <del>3</del> | 4 | 6 |
| -            | 2            | 8 | 1 |
| 5            | 5            | 3 | 6 |

b.

| Th | H | T            | O |
|----|---|--------------|---|
|    |   | 1            |   |
| 7  | 2 | <del>1</del> | 5 |
| +  | 2 | 5            | 4 |
| 9  | 7 | 6            | 4 |

| Th           | H            | T | O |
|--------------|--------------|---|---|
| 8            | 17           |   |   |
| <del>9</del> | <del>7</del> | 6 | 4 |
| -            | 3            | 9 | 1 |
| 5            | 8            | 5 | 4 |

c.

| Th | H | T | O |
|----|---|---|---|
| 4  | 1 | 1 | 1 |
| +  | 3 | 0 | 8 |
| 7  | 1 | 9 | 2 |

| Th           | H            | T            | O            |
|--------------|--------------|--------------|--------------|
|              |              | 18           |              |
| 6            | 10           | <del>8</del> | 12           |
| <del>7</del> | <del>1</del> | <del>9</del> | <del>2</del> |
| -            | 1            | 3            | 9            |
| 5            | 7            | 9            | 7            |

d.

| Th | H | T | O |
|----|---|---|---|
| 6  | 1 | 3 | 2 |
| +  | 3 | 0 | 0 |
| 9  | 1 | 3 | 2 |

| Th | H | T            | O            |
|----|---|--------------|--------------|
|    |   | 2            | 12           |
| 9  | 1 | <del>3</del> | <del>2</del> |
| -  | 1 | 0            | 0            |
| 8  | 1 | 2            | 4            |

e.

| Th | H | T | O |
|----|---|---|---|
|    | 1 | 1 |   |
| 4  | 2 | 6 | 7 |
| +  | 1 | 2 | 8 |
| 5  | 5 | 5 | 4 |

| Th           | H            | T            | O            |
|--------------|--------------|--------------|--------------|
|              | 14           | 14           |              |
| 4            | <del>4</del> | <del>4</del> | 14           |
| <del>5</del> | <del>5</del> | <del>5</del> | <del>4</del> |
| -            | 3            | 6            | 9            |
| 1            | 8            | 5            | 9            |

f.

| Th | H | T | O |
|----|---|---|---|
|    |   | 1 |   |
| 7  | 1 | 6 | 5 |
| +  | 1 | 6 | 2 |
| 8  | 7 | 9 | 0 |

| Th | H | T            | O            |
|----|---|--------------|--------------|
|    |   | 8            | 10           |
| 8  | 7 | <del>9</del> | <del>0</del> |
| -  | 2 | 4            | 8            |
| 6  | 3 | 0            | 4            |

g.

| Th | H | T | O |
|----|---|---|---|
| 1  | 1 |   |   |
| 3  | 2 | 4 | 5 |
| +  | 2 | 8 | 6 |
| 6  | 1 | 0 | 9 |

| Th           | H            | T  | O |
|--------------|--------------|----|---|
| 5            | 10           | 10 |   |
| <del>6</del> | <del>1</del> | 0  | 9 |
| -            | 3            | 2  | 1 |
| 2            | 8            | 9  | 8 |

h.

| Th | H | T | O |
|----|---|---|---|
| 6  | 1 | 2 | 4 |
| +  | 2 | 1 | 1 |
| 8  | 2 | 3 | 5 |

| Th | H            | T            | O            |
|----|--------------|--------------|--------------|
|    |              | 12           |              |
|    | 1            | <del>2</del> | 15           |
| 8  | <del>2</del> | <del>3</del> | <del>5</del> |
| -  | 3            | 1            | 9            |
| 5  | 0            | 3            | 6            |

## Word Problems

Solve the following word problems in your notebook.

- Number of apples in a store = 

|   |   |   |   |
|---|---|---|---|
| 3 | 2 | 1 | 5 |
|---|---|---|---|

  
 Number of sold apples = 

|   |   |   |   |   |
|---|---|---|---|---|
| - | 2 | 2 | 0 | 0 |
|---|---|---|---|---|

  
 Number of left apples in the store = 

|   |   |   |   |
|---|---|---|---|
| 1 | 0 | 1 | 5 |
|---|---|---|---|
- Number of purchased nails = 

|   |   |   |   |
|---|---|---|---|
| 3 | 0 | 8 | 0 |
|---|---|---|---|

  
 Number of used nails = 

|   |   |   |   |   |
|---|---|---|---|---|
| - | 2 | 0 | 8 | 0 |
|---|---|---|---|---|

  
 Number of left nails = 

|   |   |   |   |
|---|---|---|---|
| 1 | 0 | 0 | 0 |
|---|---|---|---|

- |                                                     |              |                                                                                                                                                                                                                                                                              |                                                                             |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
|-----------------------------------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----|----|----|--------------|--------------|--------------|--------------|---|---|---|---|---|---|---|---|
| 3. Number of total person in stadium                | =            | <table border="1"><tr><td>3</td><td>15</td><td>4</td><td>10</td></tr><tr><td><del>4</del></td><td><del>5</del></td><td><del>5</del></td><td><del>0</del></td></tr><tr><td>1</td><td>9</td><td>3</td><td>8</td></tr><tr><td>2</td><td>6</td><td>1</td><td>2</td></tr></table> | 3                                                                           | 15 | 4  | 10 | <del>4</del> | <del>5</del> | <del>5</del> | <del>0</del> | 1 | 9 | 3 | 8 | 2 | 6 | 1 | 2 |
| 3                                                   | 15           | 4                                                                                                                                                                                                                                                                            | 10                                                                          |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
| <del>4</del>                                        | <del>5</del> | <del>5</del>                                                                                                                                                                                                                                                                 | <del>0</del>                                                                |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
| 1                                                   | 9            | 3                                                                                                                                                                                                                                                                            | 8                                                                           |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
| 2                                                   | 6            | 1                                                                                                                                                                                                                                                                            | 2                                                                           |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
| Number of children in stadium                       | =            | -                                                                                                                                                                                                                                                                            | <table border="1"><tr><td>1</td><td>9</td><td>3</td><td>8</td></tr></table> | 1  | 9  | 3  | 8            |              |              |              |   |   |   |   |   |   |   |   |
| 1                                                   | 9            | 3                                                                                                                                                                                                                                                                            | 8                                                                           |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
| Number of adults in stadium                         | =            |                                                                                                                                                                                                                                                                              | <table border="1"><tr><td>2</td><td>6</td><td>1</td><td>2</td></tr></table> | 2  | 6  | 1  | 2            |              |              |              |   |   |   |   |   |   |   |   |
| 2                                                   | 6            | 1                                                                                                                                                                                                                                                                            | 2                                                                           |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
|                                                     |              |                                                                                                                                                                                                                                                                              |                                                                             |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
| 4. Total cost of a cycle                            | =            | <table border="1"><tr><td>7</td><td>10</td><td></td><td></td></tr><tr><td><del>6</del></td><td><del>0</del></td><td>0</td><td>0</td></tr><tr><td>2</td><td>5</td><td>0</td><td>0</td></tr><tr><td>3</td><td>5</td><td>0</td><td>0</td></tr></table>                          | 7                                                                           | 10 |    |    | <del>6</del> | <del>0</del> | 0            | 0            | 2 | 5 | 0 | 0 | 3 | 5 | 0 | 0 |
| 7                                                   | 10           |                                                                                                                                                                                                                                                                              |                                                                             |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
| <del>6</del>                                        | <del>0</del> | 0                                                                                                                                                                                                                                                                            | 0                                                                           |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
| 2                                                   | 5            | 0                                                                                                                                                                                                                                                                            | 0                                                                           |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
| 3                                                   | 5            | 0                                                                                                                                                                                                                                                                            | 0                                                                           |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
| Rima has total money                                | =            | -                                                                                                                                                                                                                                                                            | <table border="1"><tr><td>2</td><td>5</td><td>0</td><td>0</td></tr></table> | 2  | 5  | 0  | 0            |              |              |              |   |   |   |   |   |   |   |   |
| 2                                                   | 5            | 0                                                                                                                                                                                                                                                                            | 0                                                                           |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
| She need more money                                 | =            |                                                                                                                                                                                                                                                                              | <table border="1"><tr><td>3</td><td>5</td><td>0</td><td>0</td></tr></table> | 3  | 5  | 0  | 0            |              |              |              |   |   |   |   |   |   |   |   |
| 3                                                   | 5            | 0                                                                                                                                                                                                                                                                            | 0                                                                           |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
|                                                     |              |                                                                                                                                                                                                                                                                              |                                                                             |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
| 5. Money in his bank account                        | =            | <table border="1"><tr><td>7</td><td>10</td><td></td><td></td></tr><tr><td><del>8</del></td><td><del>0</del></td><td>0</td><td>0</td></tr><tr><td>4</td><td>7</td><td>0</td><td>0</td></tr><tr><td>3</td><td>3</td><td>0</td><td>0</td></tr></table>                          | 7                                                                           | 10 |    |    | <del>8</del> | <del>0</del> | 0            | 0            | 4 | 7 | 0 | 0 | 3 | 3 | 0 | 0 |
| 7                                                   | 10           |                                                                                                                                                                                                                                                                              |                                                                             |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
| <del>8</del>                                        | <del>0</del> | 0                                                                                                                                                                                                                                                                            | 0                                                                           |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
| 4                                                   | 7            | 0                                                                                                                                                                                                                                                                            | 0                                                                           |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
| 3                                                   | 3            | 0                                                                                                                                                                                                                                                                            | 0                                                                           |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
| Money in his withdrew amount                        | =            | -                                                                                                                                                                                                                                                                            | <table border="1"><tr><td>4</td><td>7</td><td>0</td><td>0</td></tr></table> | 4  | 7  | 0  | 0            |              |              |              |   |   |   |   |   |   |   |   |
| 4                                                   | 7            | 0                                                                                                                                                                                                                                                                            | 0                                                                           |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
| Money in his bank account now                       | =            |                                                                                                                                                                                                                                                                              | <table border="1"><tr><td>3</td><td>3</td><td>0</td><td>0</td></tr></table> | 3  | 3  | 0  | 0            |              |              |              |   |   |   |   |   |   |   |   |
| 3                                                   | 3            | 0                                                                                                                                                                                                                                                                            | 0                                                                           |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
|                                                     |              |                                                                                                                                                                                                                                                                              |                                                                             |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
| 6. Sum of two numbers                               | =            | <table border="1"><tr><td>6</td><td>6</td><td>9</td><td>8</td></tr><tr><td>3</td><td>2</td><td>7</td><td>6</td></tr><tr><td>3</td><td>4</td><td>2</td><td>2</td></tr></table>                                                                                                | 6                                                                           | 6  | 9  | 8  | 3            | 2            | 7            | 6            | 3 | 4 | 2 | 2 |   |   |   |   |
| 6                                                   | 6            | 9                                                                                                                                                                                                                                                                            | 8                                                                           |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
| 3                                                   | 2            | 7                                                                                                                                                                                                                                                                            | 6                                                                           |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
| 3                                                   | 4            | 2                                                                                                                                                                                                                                                                            | 2                                                                           |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
| Sum of one number                                   | =            | -                                                                                                                                                                                                                                                                            | <table border="1"><tr><td>3</td><td>2</td><td>7</td><td>6</td></tr></table> | 3  | 2  | 7  | 6            |              |              |              |   |   |   |   |   |   |   |   |
| 3                                                   | 2            | 7                                                                                                                                                                                                                                                                            | 6                                                                           |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
| Sum second number                                   | =            |                                                                                                                                                                                                                                                                              | <table border="1"><tr><td>3</td><td>4</td><td>2</td><td>2</td></tr></table> | 3  | 4  | 2  | 2            |              |              |              |   |   |   |   |   |   |   |   |
| 3                                                   | 4            | 2                                                                                                                                                                                                                                                                            | 2                                                                           |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
|                                                     |              |                                                                                                                                                                                                                                                                              |                                                                             |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
| 7. Number of total student appeared in examination= | =            | <table border="1"><tr><td></td><td>4</td><td>10</td><td></td></tr><tr><td>9</td><td><del>5</del></td><td><del>0</del></td><td>0</td></tr><tr><td>2</td><td>2</td><td>5</td><td>0</td></tr><tr><td>7</td><td>2</td><td>5</td><td>0</td></tr></table>                          |                                                                             | 4  | 10 |    | 9            | <del>5</del> | <del>0</del> | 0            | 2 | 2 | 5 | 0 | 7 | 2 | 5 | 0 |
|                                                     | 4            | 10                                                                                                                                                                                                                                                                           |                                                                             |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
| 9                                                   | <del>5</del> | <del>0</del>                                                                                                                                                                                                                                                                 | 0                                                                           |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
| 2                                                   | 2            | 5                                                                                                                                                                                                                                                                            | 0                                                                           |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
| 7                                                   | 2            | 5                                                                                                                                                                                                                                                                            | 0                                                                           |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
| Number of failed student                            | =            | -                                                                                                                                                                                                                                                                            | <table border="1"><tr><td>2</td><td>2</td><td>5</td><td>0</td></tr></table> | 2  | 2  | 5  | 0            |              |              |              |   |   |   |   |   |   |   |   |
| 2                                                   | 2            | 5                                                                                                                                                                                                                                                                            | 0                                                                           |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
| Number of passed students                           | =            |                                                                                                                                                                                                                                                                              | <table border="1"><tr><td>7</td><td>2</td><td>5</td><td>0</td></tr></table> | 7  | 2  | 5  | 0            |              |              |              |   |   |   |   |   |   |   |   |
| 7                                                   | 2            | 5                                                                                                                                                                                                                                                                            | 0                                                                           |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
|                                                     |              |                                                                                                                                                                                                                                                                              |                                                                             |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
| 8. Number of total seat in stadium                  | =            | <table border="1"><tr><td></td><td></td><td></td><td>10</td></tr><tr><td>4</td><td>5</td><td>6</td><td><del>0</del></td></tr><tr><td>3</td><td>2</td><td>5</td><td>7</td></tr><tr><td>1</td><td>3</td><td>1</td><td>3</td></tr></table>                                      |                                                                             |    |    | 10 | 4            | 5            | 6            | <del>0</del> | 3 | 2 | 5 | 7 | 1 | 3 | 1 | 3 |
|                                                     |              |                                                                                                                                                                                                                                                                              | 10                                                                          |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
| 4                                                   | 5            | 6                                                                                                                                                                                                                                                                            | <del>0</del>                                                                |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
| 3                                                   | 2            | 5                                                                                                                                                                                                                                                                            | 7                                                                           |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
| 1                                                   | 3            | 1                                                                                                                                                                                                                                                                            | 3                                                                           |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
| Number of watching people                           | =            | -                                                                                                                                                                                                                                                                            | <table border="1"><tr><td>3</td><td>2</td><td>5</td><td>7</td></tr></table> | 3  | 2  | 5  | 7            |              |              |              |   |   |   |   |   |   |   |   |
| 3                                                   | 2            | 5                                                                                                                                                                                                                                                                            | 7                                                                           |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |
| Number of vecant seat                               | =            |                                                                                                                                                                                                                                                                              | <table border="1"><tr><td>1</td><td>3</td><td>1</td><td>3</td></tr></table> | 1  | 3  | 1  | 3            |              |              |              |   |   |   |   |   |   |   |   |
| 1                                                   | 3            | 1                                                                                                                                                                                                                                                                            | 3                                                                           |    |    |    |              |              |              |              |   |   |   |   |   |   |   |   |

## HOTS

1.  $70 + 30 = 100$   
The number is 350.
- |   |   |   |
|---|---|---|
| 2 | 5 | 0 |
| 1 | 0 | 0 |
| 3 | 5 | 0 |

- 2.
- |   |   |   |   |
|---|---|---|---|
| 1 | 2 | 3 | 4 |
| 2 | 3 | 4 | 5 |
| 3 | 5 | 7 | 9 |
- +
- |   |   |   |   |
|---|---|---|---|
| 3 | 5 | 7 | 9 |
| 2 | 3 | 0 | 6 |
| 1 | 2 | 2 | 3 |
- 
- 3.
- |   |   |   |   |
|---|---|---|---|
| 6 | 7 | 9 | 8 |
| 4 | 5 | 6 | 7 |
| 2 | 2 | 3 | 1 |
- 
- Difference
- |   |   |   |   |
|---|---|---|---|
| 2 | 2 | 3 | 1 |
| 2 | 3 | 1 | 4 |
| 4 | 5 | 4 | 5 |

## MENTAL MATHS

Solve these by following the above pattern.

a.  $28 - 18$

$\swarrow \searrow$   
 $10 + 8$

→  $28 - 10 = 18$

→  $18 - 8 = 10$

So,  $28 - 18 = 10$

b.  $37 - 17$

$\swarrow \searrow$   
 $10 + 7$

→  $37 - 10 = 17$

→  $17 - 7 = 10$

So,  $37 - 17 = 10$

c.  $38 - 26$   
 $\begin{array}{c} \swarrow \searrow \\ 20 + 6 \end{array}$

$\rightarrow 38 - 20 = 18$

$\rightarrow 18 - 6 = 12$

So,  $38 - 26 = 12$

e.  $41 - 20$   
 $\begin{array}{c} \swarrow \searrow \\ 10 + 10 \end{array}$

$\rightarrow 41 - 10 = 31$

$\rightarrow 31 - 10 = 21$

So,  $41 - 20 = 21$

g.  $72 - 19$   
 $\begin{array}{c} \swarrow \searrow \\ 10 + 9 \end{array}$

$\rightarrow 72 - 10 = 62$

$\rightarrow 62 - 9 = 53$

So,  $72 - 19 = 53$

d.  $78 - 52$   
 $\begin{array}{c} \swarrow \searrow \\ 50 + 2 \end{array}$

$\rightarrow 78 - 50 = 28$

$\rightarrow 28 - 2 = 26$

So,  $78 - 52 = 26$

f.  $91 - 72$   
 $\begin{array}{c} \swarrow \searrow \\ 70 + 2 \end{array}$

$\rightarrow 91 - 70 = 21$

$\rightarrow 21 - 2 = 19$

So,  $91 - 72 = 19$

h.  $81 - 23$   
 $\begin{array}{c} \swarrow \searrow \\ 20 + 3 \end{array}$

$\rightarrow 81 - 20 = 61$

$\rightarrow 61 - 3 = 58$

So,  $81 - 23 = 58$

# Multiplication

## Exercise 6 A

**1. Fill in the blanks.**

- a.  $2 + 2 + 2 + 2 + 2 = 2 \times 5 = 10$       b.  $5 \times 4 = 20 = 4 + 4 + 4 + 4 + 4$   
 c.  $7 \times 3 = 21 = 7 + 7 + 7 + 7 + 7 + 7 + 7$   
 d.  $1 + 1 + 1 + 1 + 1 + 1 + 1 = 7 \times 1 = 7$   
 e.  $8 + 8 + 8 = 3 \times 8 = 24$   
 f.  $3 \times 6 = 18 = 6 + 6 + 6$   
 g.  $4 \times 9 = 36 = 9 + 9 + 9 + 9$   
 h.  $3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 = 3 \times 8$   
 i.  $4 \times 6 = 6 + 6 + 6 + 6$   
 j.  $7 + 7 + 7 + 7 + 7 + 7 + 7 + 7 + 7 = 8 \times 7$   
 k.  $9 \times 9 = 81 = 9 + 9 + 9 + 9 + 9 + 9 + 9 + 9 + 9$   
 l.  $10 + 10 + 10 = 10 \times 3$   
 m.  $6 + 6 + 6 + 6 + 6 + 6 + 6 = 6 \times 6$

## Exercise 6 B

**1. Use the multiplication tables of 1 to 10 to multiply the following number.**

- |                      |                      |                       |
|----------------------|----------------------|-----------------------|
| a. $6 \times 5 = 30$ | b. $3 \times 4 = 12$ | c. $9 \times 9 = 81$  |
| d. $8 \times 6 = 48$ | e. $4 \times 7 = 28$ | f. $5 \times 8 = 40$  |
| g. $4 \times 3 = 12$ | h. $7 \times 5 = 35$ | i. $6 \times 3 = 18$  |
| j. $7 \times 9 = 63$ | k. $8 \times 9 = 72$ | l. $10 \times 9 = 90$ |
| m. $4 \times 6 = 24$ | n. $6 \times 7 = 42$ | o. $8 \times 8 = 64$  |
| p. $9 \times 6 = 54$ | q. $3 \times 7 = 21$ | r. $5 \times 8 = 40$  |
| s. $7 \times 7 = 49$ | t. $6 \times 6 = 36$ | u. $4 \times 4 = 16$  |
| v. $5 \times 5 = 25$ | w. $9 \times 9 = 81$ | x. $2 \times 9 = 18$  |

## Exercise 6 C

**1. Use the multiplication tables to multiply the following numbers.**

- |                        |                        |                         |
|------------------------|------------------------|-------------------------|
| a. $11 \times 2 = 22$  | b. $12 \times 4 = 48$  | c. $13 \times 10 = 130$ |
| d. $14 \times 5 = 70$  | e. $15 \times 9 = 135$ | f. $16 \times 7 = 112$  |
| g. $17 \times 2 = 34$  | h. $18 \times 3 = 54$  | i. $19 \times 6 = 114$  |
| j. $20 \times 8 = 160$ | k. $17 \times 9 = 153$ | l. $15 \times 5 = 75$   |

2. Fill in the missing numbers to complete the multiplication facts.

a.  $12 \times 3 = 36$

b.  $14 \times 4 = 56$

c.  $11 \times 3 = 33$

d.  $20 \times 9 = 180$

e.  $15 \times 6 = 90$

f.  $16 \times 4 = 64$

g.  $15 \times 10 = 150$

h.  $19 \times 4 = 76$

i.  $17 \times 9 = 153$

3. Complete the following table by multiplying each number written in columns with each number written in row. The first row has been done for you.

| $\times$ | 2  | 3  | 4  | 5  | 6   | 7   | 8   | 9   |
|----------|----|----|----|----|-----|-----|-----|-----|
| 11       | 22 | 33 | 44 | 55 | 66  | 77  | 88  | 99  |
| 12       | 24 | 36 | 48 | 60 | 72  | 84  | 96  | 108 |
| 13       | 26 | 39 | 52 | 65 | 78  | 91  | 104 | 117 |
| 14       | 28 | 42 | 56 | 70 | 84  | 98  | 112 | 126 |
| 15       | 30 | 45 | 60 | 75 | 90  | 105 | 120 | 135 |
| 16       | 32 | 48 | 64 | 80 | 96  | 112 | 128 | 144 |
| 17       | 34 | 51 | 68 | 85 | 102 | 119 | 136 | 153 |
| 18       | 36 | 54 | 72 | 90 | 108 | 126 | 144 | 162 |
| 19       | 38 | 57 | 76 | 95 | 114 | 133 | 152 | 171 |

### Exercise 6 D

1. Use the properties of multiplication to fill in the blanks.

a.  $5551 \times 1 = 5551$

b.  $1425 \times 0 = 0$

c.  $1612 \times 1 = 1612$

d.  $2000 \times 0 = 0$

e.  $1810 \times 1 = 1810$

f.  $1119 \times 0 = 0$

g.  $1302 \times 2 = 2 \times 1302$

h.  $(132 \times 112) \times 116 = 132 \times (112 \times 116)$

i.  $1405 \times 3 = 3 \times 1405$

j.  $2088 \times 0 = 0$

k.  $1180 \times 1 = 1180$

l.  $1700 \times 0 = 0 \times 1700$

### Exercise 6 E

1. Multiply the following.

a.

| H        | T | O |
|----------|---|---|
| 3        | 3 | 4 |
| $\times$ |   | 2 |
| 6        | 6 | 8 |

b.

| H        | T | O |
|----------|---|---|
| 1        | 5 | 2 |
| $\times$ |   | 1 |
| 1        | 5 | 2 |

c.

| H        | T | O |
|----------|---|---|
| 4        | 4 | 3 |
| $\times$ |   | 2 |
| 8        | 8 | 6 |

d.

| H        | T | O |
|----------|---|---|
| 2        | 2 | 0 |
| $\times$ |   | 2 |
| 4        | 4 | 0 |

e.

| H        | T | O |
|----------|---|---|
| 9        | 8 | 4 |
| $\times$ |   | 1 |
| 9        | 8 | 4 |

f.

| H        | T | O |
|----------|---|---|
| 1        | 1 | 1 |
| $\times$ |   | 3 |
| 3        | 3 | 3 |

g.

| H        | T | O |
|----------|---|---|
| 1        | 4 | 6 |
| $\times$ |   | 1 |
| 1        | 4 | 6 |

h.

| H        | T | O |
|----------|---|---|
| 2        | 2 | 2 |
| $\times$ |   | 4 |
| 4        | 4 | 8 |

i.

|   | H | T | O |
|---|---|---|---|
|   | 2 | 2 | 2 |
| × |   |   | 3 |
|   | 6 | 6 | 6 |

j.

|   | H | T | O |
|---|---|---|---|
|   | 1 | 2 | 1 |
| × |   |   | 4 |
|   | 4 | 8 | 4 |

k.

|   | H | T | O |
|---|---|---|---|
|   | 4 | 4 | 2 |
| × |   |   | 2 |
|   | 8 | 8 | 4 |

l.

|   | H | T | O |
|---|---|---|---|
|   | 3 | 2 | 0 |
| × |   |   | 2 |
|   | 6 | 4 | 0 |

m.

|   | H | T | O |
|---|---|---|---|
|   | 2 | 1 | 2 |
| × |   |   | 3 |
|   | 6 | 3 | 6 |

n.

|   | H | T | O |
|---|---|---|---|
|   | 1 | 1 | 3 |
| × |   |   | 3 |
|   | 3 | 3 | 9 |

o.

|   | H | T | O |
|---|---|---|---|
|   | 8 | 7 | 2 |
| × |   |   | 1 |
|   | 8 | 7 | 2 |

p.

|   | H | T | O |
|---|---|---|---|
|   | 1 | 2 | 1 |
| × |   |   | 4 |
|   | 4 | 8 | 4 |

q.

|   | H | T | O |
|---|---|---|---|
|   | 3 | 2 | 0 |
| × |   |   | 1 |
|   | 3 | 2 | 0 |

r.

|   | H | T | O |
|---|---|---|---|
|   | 1 | 1 | 2 |
| × |   |   | 1 |
|   | 1 | 1 | 2 |

s.

|   | H | T | O |
|---|---|---|---|
|   | 2 | 0 | 3 |
| × |   |   | 2 |
|   | 4 | 0 | 6 |

t.

|   | H | T | O |
|---|---|---|---|
|   | 3 | 0 | 0 |
| × |   |   | 2 |
|   | 6 | 0 | 0 |

## Exercise 6 F

1. Multiply the following numbers.

a.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 3 |   |   |
|   |    | 6 | 8 | 2 |
| × |    |   |   | 4 |
|   | 2  | 7 | 2 | 8 |

b.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 3 | 3 |   |
|   |    | 5 | 6 | 7 |
| × |    |   |   | 5 |
|   | 2  | 8 | 3 | 5 |

c.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 7 | 6 |   |
|   |    | 1 | 8 | 8 |
| × |    |   |   | 8 |
|   | 1  | 5 | 2 | 4 |

d.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 1 | 4 |   |
|   |    | 4 | 1 | 6 |
| × |    |   |   | 7 |
|   | 2  | 9 | 1 | 2 |

e.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 1 | 2 |   |
|   |    | 3 | 4 | 5 |
| × |    |   |   | 4 |
|   | 1  | 3 | 8 | 0 |

f.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    |   | 3 |   |
|   |    | 4 | 0 | 5 |
| × |    |   |   | 7 |
|   | 2  | 8 | 3 | 5 |

g.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 1 | 1 |   |
|   |    | 9 | 9 | 5 |
| × |    |   |   | 2 |
|   | 1  | 9 | 9 | 0 |

h.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 1 | 1 |   |
|   |    | 9 | 9 | 9 |
| × |    |   |   | 2 |
|   | 1  | 9 | 9 | 8 |

i.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    |   | 1 |   |
|   |    | 5 | 0 | 4 |
| × |    |   |   | 3 |
|   | 1  | 5 | 1 | 2 |

j.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 1 |   |   |
|   |    | 4 | 5 | 2 |
| × |    |   |   | 2 |
|   |    | 9 | 0 | 4 |

k.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 4 | 3 |   |
|   |    | 8 | 6 | 5 |
| × |    |   |   | 7 |
|   | 6  | 0 | 4 | 5 |

l.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 7 | 4 |   |
|   |    | 6 | 8 | 5 |
| × |    |   |   | 9 |
|   | 6  | 1 | 6 | 5 |

m.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 3 | 1 |   |
|   |    | 7 | 6 | 3 |
| × |    |   |   | 6 |
|   | 4  | 4 | 7 | 8 |

n.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 7 | 4 |   |
|   |    | 9 | 9 | 5 |
| × |    |   |   | 8 |
|   | 7  | 9 | 6 | 0 |

o.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 4 | 2 |   |
|   |    | 6 | 8 | 5 |
| × |    |   |   | 5 |
|   | 3  | 4 | 2 | 5 |

## 2. Solve the following.

a.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 4 | 7 |   |
|   |    | 6 | 4 | 8 |
| × |    |   |   | 9 |
|   | 5  | 8 | 3 | 2 |

b.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 2 |   |   |
|   |    | 7 | 3 | 1 |
| × |    |   |   | 8 |
|   | 5  | 8 | 4 | 8 |

c.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 2 | 4 |   |
|   |    | 9 | 3 | 5 |
| × |    |   |   | 8 |
|   | 7  | 4 | 8 | 0 |

d.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 3 | 2 |   |
|   |    | 8 | 6 | 4 |
| × |    |   |   | 5 |
|   | 4  | 3 | 2 | 0 |

e.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 3 | 2 |   |
|   |    | 6 | 9 | 5 |
| × |    |   |   | 4 |
|   | 2  | 7 | 8 | 0 |

f.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    |   | 1 |   |
|   |    | 5 | 4 | 8 |
| × |    |   |   | 2 |
|   | 1  | 0 | 9 | 6 |

g.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 1 | 2 |   |
|   |    | 4 | 3 | 9 |
| × |    |   |   | 3 |
|   | 1  | 3 | 1 | 7 |

h.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 2 |   |   |
|   |    | 3 | 7 | 2 |
| × |    |   |   | 4 |
|   | 1  | 4 | 8 | 8 |

i.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 4 | 4 |   |
|   |    | 2 | 8 | 8 |
| × |    |   |   | 5 |
|   | 1  | 4 | 4 | 0 |

j.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 1 | 4 |   |
|   |    | 9 | 1 | 7 |
| × |    |   |   | 6 |
|   | 5  | 5 | 0 | 2 |

k.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 6 | 5 |   |
|   |    | 4 | 7 | 6 |
| × |    |   |   | 9 |
|   | 4  | 2 | 8 | 4 |

l.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 2 | 2 |   |
|   |    | 2 | 8 | 7 |
| × |    |   |   | 3 |
|   |    | 8 | 6 | 1 |

m.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 7 |   |   |
|   |    | 5 | 9 | 1 |
| × |    |   |   | 8 |
|   | 4  | 7 | 2 | 8 |

n.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 6 | 4 |   |
|   |    | 9 | 8 | 7 |
| × |    |   |   | 8 |
|   | 6  | 9 | 0 | 9 |

o.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 4 | 3 |   |
|   |    | 9 | 9 | 6 |
| × |    |   |   | 5 |
|   | 4  | 9 | 8 | 0 |

p.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 2 | 2 |   |
|   |    | 3 | 4 | 5 |
| × |    |   |   | 5 |
|   | 1  | 7 | 2 | 5 |

q.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 2 | 2 |   |
|   |    | 7 | 3 | 4 |
| × |    |   |   | 6 |
|   | 4  | 4 | 0 | 4 |

r.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    |   | 1 |   |
|   |    | 6 | 2 | 3 |
| × |    |   |   | 4 |
|   | 2  | 4 | 9 | 2 |

s.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 3 | 2 |   |
|   |    | 4 | 5 | 3 |
| × |    |   |   | 7 |
|   | 3  | 1 | 7 | 1 |

t.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 1 | 2 |   |
|   |    | 8 | 2 | 3 |
| × |    |   |   | 8 |
|   | 6  | 5 | 8 | 4 |

## Exercise 6 G

### 1. Multiply the following.

a.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 2 | 2 |   |
|   |    | 2 | 1 | 6 |
| × |    |   |   | 4 |
|   | 8  | 6 | 6 | 0 |

b.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 1 | 1 |   |
|   |    | 3 | 0 | 6 |
| × |    |   |   | 2 |
|   | 6  | 1 | 3 | 0 |

c.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 4 | 4 | 4 |
|   |    | 1 | 8 | 8 |
| × |    |   |   | 5 |
|   | 9  | 4 | 4 | 5 |

d.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 1 |   | 4 |
|   |    | 1 | 2 | 0 |
| × |    |   |   | 7 |
|   | 8  | 4 | 4 | 9 |

e.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 3 | 1 |   |
|   | 2  | 1 | 8 | 4 |
| × |    |   |   | 4 |
|   | 8  | 7 | 3 | 6 |

f.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 2 | 6 | 5 |
|   | 1  | 2 | 8 | 8 |
| × |    |   |   | 7 |
|   | 9  | 0 | 1 | 6 |

g.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 1  | 2 | 3 |   |
|   | 1  | 3 | 4 | 6 |
| × |    |   |   | 5 |
|   | 6  | 7 | 3 | 0 |

h.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 1  | 1 |   |   |
|   | 3  | 8 | 8 | 4 |
| × |    |   |   | 2 |
|   | 7  | 7 | 6 | 8 |

i.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 2  | 3 | 1 |   |
|   | 1  | 5 | 7 | 2 |
| × |    |   |   | 5 |
|   | 7  | 8 | 6 | 0 |

j.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 1  | 2 | 2 |   |
|   | 2  | 5 | 6 | 7 |
| × |    |   |   | 3 |
|   | 7  | 7 | 0 | 1 |

k.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    |   | 1 |   |
|   | 1  | 4 | 3 | 6 |
| × |    |   |   | 2 |
|   | 2  | 8 | 7 | 2 |

l.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    |   |   |   |
|   | 2  | 1 | 3 | 2 |
| × |    |   |   | 2 |
|   | 4  | 2 | 6 | 4 |

m.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 1  | 2 | 5 |   |
|   | 1  | 1 | 2 | 7 |
| × |    |   |   | 8 |
|   | 9  | 0 | 1 | 6 |

n.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 7 | 3 |   |
|   | 1  | 0 | 8 | 4 |
| × |    |   |   | 9 |
|   | 9  | 7 | 5 | 6 |

o.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 2  | 2 |   |   |
|   | 2  | 9 | 7 | 3 |
| × |    |   |   | 3 |
|   | 8  | 9 | 1 | 9 |

p.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 1  | 3 | 2 |   |
|   | 2  | 4 | 7 | 6 |
| × |    |   |   | 4 |
|   | 9  | 9 | 0 | 4 |

q.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 1  |   |   |   |
|   | 3  | 5 | 1 | 2 |
| × |    |   |   | 2 |
|   | 7  | 0 | 2 | 4 |

r.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 3 | 3 |   |
|   | 1  | 0 | 8 | 9 |
| × |    |   |   | 4 |
|   | 4  | 3 | 5 | 6 |

s.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 1  |   | 2 |   |
|   | 2  | 5 | 1 | 9 |
| × |    |   |   | 3 |
|   | 7  | 5 | 5 | 7 |

t.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 2  | 2 |   |   |
|   | 1  | 6 | 5 | 2 |
| × |    |   |   | 4 |
|   | 6  | 6 | 0 | 8 |

## 2. Solve the following.

a.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 2  | 2 | 2 |   |
|   | 1  | 5 | 5 | 5 |
| × |    |   |   | 4 |
|   | 6  | 2 | 2 | 0 |

b.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 1  | 2 | 2 |   |
|   | 1  | 3 | 6 | 7 |
| × |    |   |   | 3 |
|   | 4  | 1 | 0 | 1 |

c.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 1  | 1 | 1 |   |
|   | 1  | 2 | 2 | 2 |
| × |    |   |   | 6 |
|   | 7  | 3 | 3 | 2 |

d.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 1 | 1 |   |
|   | 1  | 1 | 2 | 3 |
| × |    |   |   | 5 |
|   | 5  | 6 | 1 | 5 |

e.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 3 | 4 |   |
|   | 1  | 0 | 4 | 7 |
| × |    |   |   | 7 |
|   | 7  | 3 | 2 | 9 |

f.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 2  | 2 | 3 |   |
|   | 1  | 4 | 5 | 6 |
| × |    |   |   | 5 |
|   | 7  | 2 | 8 | 0 |

g.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 1  | 3 | 1 |   |
|   | 1  | 1 | 4 | 2 |
| × |    |   |   | 8 |
|   | 9  | 1 | 3 | 6 |

h.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 3 | 1 |   |
|   | 1  | 0 | 4 | 2 |
| × |    |   |   | 9 |
|   | 9  | 3 | 7 | 8 |

i.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    |   | 1 |   |
|   | 1  | 1 | 2 | 3 |
| × |    |   |   | 4 |
|   | 4  | 4 | 9 | 2 |

j.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    |   | 1 |   |
|   | 1  | 0 | 0 | 4 |
| × |    |   |   | 4 |
|   | 4  | 0 | 1 | 6 |

k.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 1  |   | 1 |   |
|   | 1  | 5 | 3 | 8 |
| × |    |   |   | 2 |
|   | 3  | 0 | 7 | 6 |

l.

|   | Th | H | T | O |
|---|----|---|---|---|
|   | 1  | 1 | 2 |   |
|   | 1  | 3 | 4 | 5 |
| × |    |   |   | 4 |
|   | 5  | 3 | 8 | 0 |

m.

| Th | H | T | O |
|----|---|---|---|
| 2  | 3 | 1 |   |
| 1  | 4 | 7 | 2 |
| ×  |   |   | 5 |
| 7  | 3 | 6 | 0 |

n.

| Th | H | T | O |
|----|---|---|---|
| 1  | 1 |   |   |
| 1  | 2 | 3 | 1 |
| ×  |   |   | 6 |
| 7  | 3 | 8 | 6 |

o.

| Th | H | T | O |
|----|---|---|---|
|    |   |   |   |
| 1  | 0 | 4 | 0 |
| ×  |   |   | 2 |
| 2  | 0 | 8 | 0 |

p.

| Th | H | T | O |
|----|---|---|---|
| 1  |   |   |   |
| 1  | 4 | 1 | 2 |
| ×  |   |   | 4 |
| 5  | 6 | 4 | 8 |

q.

| Th | H | T | O |
|----|---|---|---|
| 1  | 2 | 2 |   |
| 2  | 3 | 7 | 8 |
| ×  |   |   | 3 |
| 7  | 1 | 3 | 4 |

r.

| Th | H | T | O |
|----|---|---|---|
| 1  | 1 | 1 |   |
| 2  | 3 | 4 | 3 |
| ×  |   |   | 4 |
| 9  | 3 | 7 | 2 |

s.

| Th | H | T | O |
|----|---|---|---|
| 1  | 5 | 2 |   |
| 1  | 2 | 8 | 4 |
| ×  |   |   | 7 |
| 8  | 9 | 8 | 8 |

t.

| Th | H | T | O |
|----|---|---|---|
|    | 1 | 2 |   |
| 1  | 1 | 3 | 4 |
| ×  |   |   | 5 |
| 5  | 6 | 7 | 0 |

### 3. Arrange in columns and add.

a.

| Th | H | T | O |
|----|---|---|---|
| 2  | 1 | 3 |   |
| 1  | 5 | 3 | 7 |
| ×  |   |   | 5 |
| 7  | 6 | 8 | 5 |

b.

| Th | H | T | O |
|----|---|---|---|
|    | 1 | 4 |   |
| 1  | 1 | 2 | 7 |
| ×  |   |   | 7 |
| 7  | 8 | 8 | 9 |

c.

| Th | H | T | O |
|----|---|---|---|
| 1  |   |   |   |
| 2  | 6 | 3 | 3 |
| ×  |   |   | 2 |
| 5  | 2 | 6 | 6 |

d.

| Th | H | T | O |
|----|---|---|---|
| 1  | 1 | 2 |   |
| 1  | 2 | 3 | 4 |
| ×  |   |   | 5 |
| 6  | 1 | 7 | 0 |

### 4. Calculate in your notebook and fill in the boxes.

a.

| Th | H | T | O |
|----|---|---|---|
|    | 2 | 3 |   |
| 1  | 0 | 2 | 4 |
| ×  |   |   | 9 |
| 9  | 2 | 1 | 6 |

b.

| Th | H | T | O |
|----|---|---|---|
|    | 1 | 1 |   |
| 4  | 0 | 8 | 6 |
| ×  |   |   | 2 |
| 8  | 1 | 7 | 2 |

c.

| Th | H | T | O |
|----|---|---|---|
| 1  | 1 | 1 |   |
| 1  | 5 | 6 | 4 |
| ×  |   |   | 3 |
| 4  | 6 | 9 | 2 |

d.

| Th | H | T | O |
|----|---|---|---|
| 1  | 2 |   |   |
| 2  | 2 | 5 | 2 |
| ×  |   |   | 4 |
| 9  | 0 | 0 | 8 |

e.

| Th | H | T | O |
|----|---|---|---|
|    |   | 1 |   |
| 1  | 3 | 2 | 6 |
| ×  |   |   | 3 |
| 3  | 9 | 7 | 8 |

f.

| Th | H | T | O |
|----|---|---|---|
| 2  | 1 | 3 |   |
| 1  | 4 | 2 | 5 |
| ×  |   |   | 6 |
| 8  | 5 | 5 | 0 |

## Exercise 6 H

### 1. Multiply the following numbers.

a.

| T  | O  |
|----|----|
| 4  | 3  |
| ×  | 1  |
| 8  | 6  |
| +  | 43 |
| 51 | 6  |

b.

| H | T | O |
|---|---|---|
|   | 2 | 2 |
| × | 3 | 3 |
|   | 6 | 6 |
| + | 6 | 6 |
| 7 | 2 | 6 |

c.

| H | T | O |
|---|---|---|
|   | 2 | 4 |
| × | 1 | 1 |
|   | 2 | 4 |
| + | 2 | 4 |
| 2 | 6 | 4 |

d.

| H | T | O |
|---|---|---|
|   | 1 |   |
|   | 3 | 3 |
| × | 2 | 5 |
| 1 | 6 | 5 |
| + | 6 | 6 |
| 8 | 2 | 5 |

e.

| H | T | O |
|---|---|---|
|   | 4 | 3 |
| × | 2 | 2 |
|   | 8 | 6 |
| + | 8 | 6 |
| 9 | 4 | 6 |

## 2. Multiply the following numbers.

a.

| Th | H | T | O |
|----|---|---|---|
|    |   | 4 | 2 |
| ×  |   | 2 | 4 |
|    | 1 | 6 | 8 |
| +  | 8 | 4 | * |
| 1  | 0 | 0 | 8 |

b.

| Th | H | T | O |
|----|---|---|---|
|    |   | 9 | 2 |
| ×  |   | 1 | 2 |
|    | 1 | 8 | 4 |
| +  | 9 | 2 | * |
| 1  | 1 | 0 | 4 |

c.

| Th | H | T | O |
|----|---|---|---|
|    |   | 1 |   |
|    |   | 7 | 3 |
| ×  |   | 2 | 6 |
|    | 4 | 3 | 8 |
| +  | 1 | 4 | 6 |
| 1  | 8 | 9 | 8 |

d.

| Th | H | T | O |
|----|---|---|---|
|    |   | 2 |   |
|    |   | 9 | 5 |
| ×  |   | 1 | 5 |
|    | 4 | 7 | 5 |
| +  | 9 | 5 | * |
| 1  | 4 | 2 | 5 |

e.

| Th | H | T | O |
|----|---|---|---|
|    |   | 2 |   |
|    |   | 8 | 4 |
| ×  |   | 2 | 7 |
|    | 5 | 8 | 8 |
| +  | 1 | 6 | 8 |
| 2  | 2 | 6 | 8 |

f.

| Th | H | T | O |
|----|---|---|---|
|    |   | 1 |   |
|    |   | 4 | 4 |
| ×  |   | 2 | 4 |
|    | 1 | 7 | 6 |
| +  | 8 | 8 | * |
| 1  | 0 | 5 | 6 |

g.

| Th | H | T | O |
|----|---|---|---|
|    |   | 4 |   |
|    |   | 8 | 7 |
| ×  |   | 1 | 6 |
|    | 5 | 2 | 2 |
| +  | 8 | 7 | * |
| 1  | 3 | 9 | 2 |

h.

| Th | H | T | O |
|----|---|---|---|
|    |   | 2 |   |
|    |   | 2 |   |
|    |   | 4 | 5 |
| ×  |   | 4 | 5 |
|    | 2 | 2 | 5 |
| +  | 1 | 8 | 0 |
| 2  | 0 | 2 | 5 |

i.

| H | T | O |
|---|---|---|
|   | 1 |   |
|   | 2 | 3 |
| × | 1 | 4 |
|   | 9 | 2 |
| + | 2 | 3 |
| 3 | 2 | 2 |

j.

| Th | H | T | O |
|----|---|---|---|
|    |   | 1 |   |
|    |   | 2 | 2 |
| ×  |   | 6 | 6 |
|    | 1 | 3 | 2 |
| +  | 1 | 3 | 2 |
| 1  | 4 | 5 | 2 |

k.

| Th | H | T | O |
|----|---|---|---|
|    |   | 1 |   |
|    |   | 1 |   |
|    |   | 8 | 5 |
| ×  |   | 3 | 3 |
|    | 2 | 5 | 5 |
| +  | 2 | 5 | 5 |
| 2  | 8 | 0 | 5 |

l.

| Th | H | T | O |
|----|---|---|---|
|    |   | 1 |   |
|    |   | 5 |   |
|    |   | 5 | 6 |
| ×  |   | 2 | 9 |
|    | 5 | 0 | 4 |
| +  | 1 | 1 | 2 |
| 1  | 6 | 2 | 4 |

m.

| H | T | O |
|---|---|---|
|   | 4 | 2 |
| × | 2 | 3 |
|   | 1 | 2 |
| + | 8 | 4 |
| 9 | 6 | 6 |

n.

| H | T | O |
|---|---|---|
|   | 1 |   |
|   | 2 | 6 |
| × | 1 | 3 |
|   | 6 | 8 |
| + | 2 | 6 |
| 5 | 6 | 8 |

o.

| Th | H | T | O |
|----|---|---|---|
|    |   | 6 | 2 |
| ×  |   | 2 | 4 |
|    | 2 | 4 | 8 |
| +  | 1 | 2 | 4 |
| 1  | 4 | 8 | 8 |

## Exercise 6 I

1. Multiply the following.

a.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    |   | 2 |   |
|   |    |   | 1 |   |
|   |    | 2 | 2 | 8 |
| × |    |   | 3 | 2 |
|   |    | 4 | 5 | 6 |
| + | 6  | 6 | 4 | ✖ |
|   | 7  | 0 | 9 | 6 |

b.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    |   |   |   |
|   |    | 1 | 6 |   |
|   |    | 2 | 1 | 8 |
| × |    |   | 1 | 8 |
|   | 1  | 7 | 4 | 4 |
| + | 2  | 1 | 8 | ✖ |
|   | 3  | 9 | 2 | 4 |

c.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    |   | 1 |   |
|   |    |   | 3 |   |
|   |    | 1 | 0 | 7 |
| × |    |   | 2 | 5 |
|   |    | 5 | 3 | 5 |
| + | 2  | 1 | 4 | ✖ |
|   | 2  | 6 | 7 | 5 |

d.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    |   |   |   |
|   |    | 1 |   |   |
|   |    | 2 | 3 | 1 |
| × |    |   | 3 | 4 |
|   |    | 9 | 2 | 4 |
| + | 6  | 9 | 3 | ✖ |
|   | 7  | 8 | 5 | 4 |

e.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 1 |   |   |
|   |    | 1 |   |   |
|   |    | 2 | 6 | 3 |
| × |    |   | 3 | 3 |
|   |    | 7 | 8 | 9 |
| + | 7  | 8 | 9 | ✖ |
|   | 8  | 6 | 7 | 9 |

f.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 2 |   |   |
|   |    | 3 |   |   |
|   |    | 1 | 5 | 1 |
| × |    |   | 4 | 5 |
|   |    | 7 | 5 | 5 |
| + | 6  | 0 | 4 | ✖ |
|   | 6  | 7 | 9 | 5 |

g.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    |   |   |   |
|   |    | 1 | 2 |   |
|   |    | 1 | 2 | 4 |
| × |    |   | 5 | 1 |
|   |    | 1 | 2 | 4 |
| + | 6  | 2 | 0 | ✖ |
|   | 6  | 3 | 2 | 4 |

h.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 2 |   |   |
|   |    | 3 | 1 |   |
|   |    | 1 | 6 | 2 |
| × |    |   | 4 | 5 |
|   |    | 8 | 1 | 0 |
| + | 6  | 4 | 8 | ✖ |
|   | 7  | 2 | 9 | 0 |

i.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 1 |   |   |
|   |    | 1 |   |   |
|   |    | 2 | 6 | 3 |
| × |    |   | 3 | 3 |
|   |    | 7 | 8 | 9 |
| + | 7  | 8 | 9 | ✖ |
|   | 8  | 6 | 7 | 9 |

j.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    |   | 2 |   |
|   |    |   | 2 |   |
|   |    | 1 | 0 | 5 |
| × |    |   | 4 | 5 |
|   |    | 5 | 2 | 5 |
| + | 4  | 2 | 0 | ✖ |
|   | 4  | 7 | 2 | 5 |

k.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    |   |   |   |
|   |    |   | 1 |   |
|   |    | 2 | 2 | 4 |
| × |    |   | 3 | 2 |
|   |    | 4 | 4 | 8 |
| + | 6  | 7 | 2 | ✖ |
|   | 7  | 1 | 6 | 8 |

l.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    |   |   |   |
|   |    | 1 |   |   |
|   |    | 4 | 6 | 2 |
| × |    |   | 1 | 3 |
|   | 1  | 3 | 8 | 6 |
| + | 4  | 6 | 2 | ✖ |
|   | 6  | 0 | 0 | 6 |

## 2. Multiply the following numbers.

a.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 2 | 1 | 2 |
| × |    |   | 4 | 2 |
|   |    | 4 | 2 | 4 |
| + | 8  | 4 | 8 | ✖ |
|   | 8  | 9 | 0 | 4 |

b.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 4 | 2 |   |
|   |    | 2 | 5 | 3 |
| × |    |   | 1 | 8 |
|   | 2  | 0 | 2 | 5 |
| + | 2  | 5 | 3 | ✖ |
|   | 4  | 5 | 5 | 4 |

c.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    |   | 4 |   |
|   |    | 2 | 1 | 9 |
| × |    |   |   | 5 |
|   | 1  | 0 | 9 | 5 |

d.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    |   | 2 |   |
|   |    | 2 | 2 |   |
|   |    | 3 | 4 | 5 |
| × |    |   | 2 | 5 |
|   | 1  | 7 | 2 | 5 |
| + | 6  | 8 | 0 | ✖ |
|   | 8  | 5 | 2 | 5 |

e.

|   | Th | H | T | O |
|---|----|---|---|---|
|   |    | 2 | 2 | 1 |
| × |    |   | 3 | 4 |
|   |    | 8 | 8 | 4 |
| + | 6  | 6 | 3 | ✖ |
|   | 7  | 5 | 1 | 4 |

## Word Problems

Solve the following.

1. Hours in a day  
Hours in 20 days

|   |   |   |   |   |
|---|---|---|---|---|
| = |   | H | T | O |
|   |   |   | 2 | 4 |
| = | × |   | 2 | 0 |
|   |   |   | 0 | 0 |
|   | + | 4 | 8 | ✖ |
|   |   | 4 | 8 | 0 |

2. One truck can carry bags  
9 trucks can carry bag

|   |   |    |   |   |   |
|---|---|----|---|---|---|
| = |   | Th | H | T | O |
|   |   |    | 2 | 0 | 0 |
| = | × |    |   |   | 9 |
|   |   | 1  | 8 | 0 | 0 |

3. Cost of a racket  
Cost of 50 rackets

|   |   |    |   |   |   |
|---|---|----|---|---|---|
| = |   | Th | H | T | O |
|   |   |    | 1 |   |   |
|   |   |    | 1 | 2 | 0 |
| = | × |    |   | 5 | 0 |
|   |   |    | 0 | 0 | 0 |
|   |   | 6  | 0 | 0 | ✖ |
|   |   | 6  | 0 | 0 | 0 |

4. Number of compartments

Number of parrengers in each compartment

=

= ×

| Th | H | T | O |
|----|---|---|---|
|    |   | 3 |   |
|    |   | 1 | 4 |
|    |   | 8 | 0 |
|    |   | 0 | 0 |
| 1  | 1 | 2 | × |
| 1  | 1 | 2 | 0 |

5. Cost of one Carpet

Cost of 12 Carpet

=

= ×

| Th | H | T | O |
|----|---|---|---|
|    | 1 |   |   |
|    | 7 | 5 | 0 |
|    |   | 1 | 2 |
| 1  | 5 | 0 | 0 |
| 7  | 5 | 0 | × |
| 9  | 0 | 0 | 0 |

6. Price of a T-Shirt

Bought 8 T-Shirt

Price of 8 T- Shirt.

=

= ×

| Th | H | T | O |
|----|---|---|---|
|    | 4 |   |   |
|    | 5 | 5 | 0 |
|    |   |   | 8 |
| 4  | 4 | 0 | 0 |

7. Weight of a basket of apples

Weight of 12 such baskets

=

= ×

| H | T | O |
|---|---|---|
|   | 1 |   |
|   | 1 | 5 |
|   | 1 | 2 |
|   | 3 | 0 |
| 1 | 5 | × |
| 1 | 8 | 0 |

8. Ankita does 6 sums daily

Ankita does sums in a week

=

= ×

| T | O |
|---|---|
|   | 6 |
|   | 7 |
| 4 | 2 |

9. Shelves in the storybooks section

Each Shelves have 25 storybooks

=

= ×

| H | T | O |
|---|---|---|
|   | 1 |   |
|   | 1 | 5 |
|   | 2 | 5 |
|   | 7 | 5 |
| 3 | 0 | × |
| 3 | 7 | 5 |

Storybooks in the library.

10. Cost of movie ticket

Cost of 4 movie tickets

They spend ₹ 480 for buying the tickets.

|   |   |   |   |
|---|---|---|---|
|   | H | T | O |
| = | 1 | 2 | 0 |
| = | × |   | 4 |
|   | 4 | 8 | 0 |

11. Number of students in one section

Students in such 5 section

There are 175 students in 5 such sections.

|   |   |   |   |
|---|---|---|---|
|   | H | T | O |
| = |   | 2 |   |
| = |   | 3 | 5 |
| = | × |   | 5 |
|   | 1 | 7 | 5 |

12. Number of boys in one row

Number of boy in 30 rows

|   |   |   |   |
|---|---|---|---|
|   | H | T | O |
| = |   | 2 |   |
| = |   | 2 | 7 |
| = | × |   | 3 |
|   |   | 0 | 0 |
|   | 8 | 1 | × |
|   | 8 | 1 | 0 |

### Framing Word Problems

- One T-Shirt cost is ₹ 475. How much will be the cost of 78 such T-Shirts?
- The cost of one banana is ₹ 15. How much money do you need to buy 750 such bananas.
- A Train has 8 compartments. There are 125 Passengers in each of the compartment. How many passengers are there in the train?
- The weight of a basket of oranges is ₹ 10 kg. Find the weight of 920 such baskets.
- A Hotel has 8 rooms. How many rooms will be in such 650 hotels.
- Cost of a Tomato sauce is ₹ 121. How much money do you spent on buying 4 such Tomato sauce.

### HOTS

1. Are you a number genius?

- What are the two numbers whose product is equal to their sum? 2 and 2.
- What are the two numbers whose product is always 1? 1

2. Compare the products and put '>', '<' or '='.

- $12 \times 5$    $15 \times 5$
- $12 \times 8$    $16 \times 6$
- $19 \times 2$    $3 \times 19$
- $20 \times 5$    $12 \times 9$

## **Mental Maths**

a.  $13 \times 20 = 260,$

$13 \times 200 = 2600$

b.  $29 \times 30 = 870,$

$29 \times 300 = 8700$

c.  $135 \times 30 = 4050,$

$135 \times 300 = 40500$

d.  $271 \times 10 = 2710,$

$271 \times 100 = 27100$

# Division

## Exercise 7 A

1. Divide using the repeated subtraction method. One has been done for you.

a.  $8 \div 4 = 8 - 4 = 4 ; 4 - 4 = 0.$  Therefore  $8 \div 4 = 2$

b.  $24 \div 6 = 24 - 6 = 18 ; 18 - 6 = 12 ; 12 - 6 = 6 ; 6 - 6 = 0.$

Therefore  $24 \div 6 = 4$

c.  $40 \div 8 = 40 - 8 = 30 ; 32 - 8 = 24 ; 24 - 8 = 16 ; 16 - 8 = 8 ; 8 - 8 = 0$

Therefore  $40 \div 8 = 5$

d.  $18 \div 9 = 18 - 9 = 9 ; 9 - 9 = 0.$  Therefore  $18 \div 9 = 2$

e.  $20 \div 5 = 20 - 5 = 15 ; 15 - 5 = 10 ; 10 - 5 = 5 ; 5 - 5 = 0.$

Therefore  $20 \div 5 = 4$

2. Write the division fact for each of the following statements.

- a. Divide 21 balloons among 7 children. Each child gets 3 balloons.

$21 \div 7 = 3$

- b. Divide 50 chocolates among 10 students. Each student gets 5 chocolates.

$50 \div 10 = 5$

- c. Divide 64 books among 8 readers. Each reader gets 8 books.

$64 \div 8 = 8$

## Exercise 7 B

1. Use the properties of division and fill in the blanks.

a.  $12 \div 1 = 12$       b.  $47 \div 47 = 1$       c.  $0 \div 34 = 0$

d.  $0 \div 15 = 0$       e.  $35 \div 35 = 1$       f.  $20 \div 20 = 1$

g.  $840 \div 840 = 1$       h.  $0 \div 22 = 0$       i.  $72 \div 1 = 72$

## Exercise 7 C

1. Write the two division facts for each of the following multiplication facts.

|    |                     | Division fact 1   | Division fact 2   |
|----|---------------------|-------------------|-------------------|
| a. | $19 \times 3 = 57$  | $57 \div 3 = 19$  | $57 \div 19 = 3$  |
| b. | $15 \times 5 = 75$  | $75 \div 5 = 15$  | $75 \div 15 = 5$  |
| c. | $12 \times 4 = 48$  | $48 \div 4 = 12$  | $48 \div 12 = 4$  |
| d. | $13 \times 6 = 78$  | $78 \div 6 = 13$  | $78 \div 13 = 6$  |
| e. | $11 \times 3 = 33$  | $33 \div 3 = 11$  | $33 \div 11 = 3$  |
| f. | $14 \times 2 = 28$  | $28 \div 2 = 14$  | $28 \div 14 = 2$  |
| g. | $18 \times 7 = 126$ | $126 \div 7 = 18$ | $126 \div 18 = 7$ |
| h. | $16 \times 8 = 128$ | $128 \div 8 = 16$ | $128 \div 16 = 8$ |

2. Write the multiplication facts for the following divisions facts. One has been done for you.

- a.  $24 \div 6 = 4$      $6 \times 4 = 24$     b.  $50 \div 10 = 5$      $10 \times 5 = 50$   
c.  $54 \div 3 = 18$      $3 \times 18 = 54$     d.  $60 \div 2 = 30$      $2 \times 30 = 60$   
e.  $15 \div 15 = 1$      $15 \times 1 = 15$     f.  $27 \div 3 = 9$      $3 \times 9 = 27$   
g.  $21 \div 3 = 7$      $3 \times 7 = 21$     h.  $50 \div 2 = 25$      $2 \times 2 = 50$   
i.  $24 \div 6 = 4$      $6 \times 4 = 24$     j.  $35 \div 7 = 5$      $7 \times 5 = 35$   
k.  $99 \div 11 = 9$      $11 \times 9 = 99$     l.  $96 \div 16 = 6$      $16 \times 6 = 96$   
m.  $70 \div 10 = 7$      $10 \times 7 = 70$     n.  $28 \div 14 = 2$      $14 \times 2 = 28$

## Exercise 7 D

1. Divide the following using the long division method in your notebook.

a. 
$$\begin{array}{r} 2 \overline{)36} \overline{)18} \\ \underline{-2} \phantom{00} \\ 16 \\ \underline{-16} \\ 00 \end{array}$$

b. 
$$\begin{array}{r} 4 \overline{)96} \overline{)24} \\ \underline{-8} \phantom{00} \\ 16 \\ \underline{-16} \\ 00 \end{array}$$

c. 
$$\begin{array}{r} 3 \overline{)60} \overline{)20} \\ \underline{-6} \phantom{00} \\ 00 \\ \underline{-00} \\ 00 \end{array}$$

d. 
$$\begin{array}{r} 3 \overline{)90} \overline{)30} \\ \underline{-9} \phantom{00} \\ 00 \\ \underline{-00} \\ 00 \end{array}$$

e. 
$$\begin{array}{r} 5 \overline{)50} \overline{)10} \\ \underline{-5} \phantom{00} \\ 00 \\ \underline{-00} \\ 00 \end{array}$$

f. 
$$\begin{array}{r} 3 \overline{)99} \overline{)33} \\ \underline{-9} \phantom{00} \\ 09 \\ \underline{-09} \\ 00 \end{array}$$

g. 
$$\begin{array}{r} 8 \overline{)80} \overline{)10} \\ - 8 \phantom{0} \\ \hline 00 \\ - 00 \\ \hline 00 \end{array}$$

j. 
$$\begin{array}{r} 4 \overline{)48} \overline{)12} \\ - 4 \phantom{0} \\ \hline 08 \\ - 08 \\ \hline 00 \end{array}$$

m. 
$$\begin{array}{r} 3 \overline{)78} \overline{)26} \\ - 6 \phantom{0} \\ \hline 18 \\ - 18 \\ \hline 00 \end{array}$$

p. 
$$\begin{array}{r} 3 \overline{)87} \overline{)29} \\ - 6 \phantom{0} \\ \hline 27 \\ - 27 \\ \hline 00 \end{array}$$

s. 
$$\begin{array}{r} 2 \overline{)88} \overline{)44} \\ - 8 \phantom{0} \\ \hline 08 \\ - 08 \\ \hline 00 \end{array}$$

v. 
$$\begin{array}{r} 8 \overline{)96} \overline{)12} \\ - 8 \phantom{0} \\ \hline 16 \\ - 16 \\ \hline 00 \end{array}$$

y. 
$$\begin{array}{r} 5 \overline{)65} \overline{)13} \\ - 5 \phantom{0} \\ \hline 15 \\ - 15 \\ \hline 00 \end{array}$$

h. 
$$\begin{array}{r} 4 \overline{)84} \overline{)21} \\ - 8 \phantom{0} \\ \hline 04 \\ - 04 \\ \hline 00 \end{array}$$

k. 
$$\begin{array}{r} 7 \overline{)77} \overline{)11} \\ - 7 \phantom{0} \\ \hline 07 \\ - 07 \\ \hline 00 \end{array}$$

n. 
$$\begin{array}{r} 3 \overline{)72} \overline{)24} \\ - 6 \phantom{0} \\ \hline 12 \\ - 12 \\ \hline 00 \end{array}$$

q. 
$$\begin{array}{r} 4 \overline{)72} \overline{)18} \\ - 4 \phantom{0} \\ \hline 32 \\ - 32 \\ \hline 00 \end{array}$$

t. 
$$\begin{array}{r} 7 \overline{)91} \overline{)19} \\ - 7 \phantom{0} \\ \hline 21 \\ - 21 \\ \hline 00 \end{array}$$

w. 
$$\begin{array}{r} 2 \overline{)56} \overline{)28} \\ - 4 \phantom{0} \\ \hline 16 \\ - 16 \\ \hline 00 \end{array}$$

i. 
$$\begin{array}{r} 6 \overline{)72} \overline{)12} \\ - 6 \phantom{0} \\ \hline 12 \\ - 12 \\ \hline 00 \end{array}$$

l. 
$$\begin{array}{r} 3 \overline{)78} \overline{)26} \\ - 6 \phantom{0} \\ \hline 18 \\ - 18 \\ \hline 00 \end{array}$$

o. 
$$\begin{array}{r} 3 \overline{)84} \overline{)28} \\ - 6 \phantom{0} \\ \hline 24 \\ - 24 \\ \hline 00 \end{array}$$

r. 
$$\begin{array}{r} 4 \overline{)68} \overline{)17} \\ - 4 \phantom{0} \\ \hline 28 \\ - 28 \\ \hline 00 \end{array}$$

u. 
$$\begin{array}{r} 7 \overline{)98} \overline{)14} \\ - 7 \phantom{0} \\ \hline 28 \\ - 28 \\ \hline 00 \end{array}$$

x. 
$$\begin{array}{r} 2 \overline{)58} \overline{)29} \\ - 4 \phantom{0} \\ \hline 18 \\ - 18 \\ \hline 00 \end{array}$$

## Exercise 7 E

1. Divide the following.

a. 
$$\begin{array}{r} 2 \overline{)248} \overline{)124} \\ - 2 \phantom{00} \\ \hline 04 \phantom{00} \\ - 04 \phantom{00} \\ \hline 08 \phantom{00} \\ - 08 \phantom{00} \\ \hline 00 \end{array}$$

b. 
$$\begin{array}{r} 2 \overline{)384} \overline{)192} \\ - 2 \phantom{00} \\ \hline 18 \phantom{00} \\ - 18 \phantom{00} \\ \hline 004 \phantom{00} \\ - 04 \phantom{00} \\ \hline 00 \end{array}$$

c. 
$$\begin{array}{r} 2 \overline{)482} \overline{)241} \\ - 4 \phantom{00} \\ \hline 08 \phantom{00} \\ - 08 \phantom{00} \\ \hline 02 \phantom{00} \\ - 02 \phantom{00} \\ \hline 00 \end{array}$$

d. 
$$\begin{array}{r} 5 \overline{)845} \overline{)169} \\ - 5 \phantom{00} \\ \hline 34 \phantom{00} \\ - 30 \phantom{00} \\ \hline 45 \phantom{00} \\ - 45 \phantom{00} \\ \hline 00 \end{array}$$

e. 
$$\begin{array}{r} 6 \overline{)726} \overline{)121} \\ - 6 \phantom{00} \\ \hline 12 \phantom{00} \\ - 12 \phantom{00} \\ \hline 006 \phantom{00} \\ - 06 \phantom{00} \\ \hline 00 \end{array}$$

f. 
$$\begin{array}{r} 5 \overline{)985} \overline{)197} \\ - 5 \phantom{00} \\ \hline 48 \phantom{00} \\ - 45 \phantom{00} \\ \hline 35 \phantom{00} \\ - 35 \phantom{00} \\ \hline 00 \end{array}$$

g. 
$$\begin{array}{r} 6 \overline{)864} \overline{)144} \\ - 6 \phantom{00} \\ \hline 26 \phantom{00} \\ - 24 \phantom{00} \\ \hline 24 \phantom{00} \\ - 24 \phantom{00} \\ \hline 00 \end{array}$$

h. 
$$\begin{array}{r} 7 \overline{)854} \overline{)122} \\ - 7 \phantom{00} \\ \hline 15 \phantom{00} \\ - 14 \phantom{00} \\ \hline 14 \phantom{00} \\ - 14 \phantom{00} \\ \hline 00 \end{array}$$

i. 
$$\begin{array}{r} 4 \overline{)992} \overline{)248} \\ - 8 \phantom{00} \\ \hline 19 \phantom{00} \\ - 16 \phantom{00} \\ \hline 32 \phantom{00} \\ - 32 \phantom{00} \\ \hline 00 \end{array}$$

j. 
$$\begin{array}{r} 3 \overline{)369} \overline{)123} \\ - 3 \phantom{00} \\ \hline 06 \phantom{00} \\ - 06 \phantom{00} \\ \hline 09 \phantom{00} \\ - 09 \phantom{00} \\ \hline 00 \end{array}$$

k. 
$$\begin{array}{r} 5 \overline{)965} \overline{)193} \\ - 5 \phantom{00} \\ \hline 46 \phantom{00} \\ - 45 \phantom{00} \\ \hline 15 \phantom{00} \\ - 15 \phantom{00} \\ \hline 00 \end{array}$$

l. 
$$\begin{array}{r} 6 \overline{)894} \overline{)149} \\ - 6 \phantom{00} \\ \hline 29 \phantom{00} \\ - 24 \phantom{00} \\ \hline 54 \phantom{00} \\ - 54 \phantom{00} \\ \hline 00 \end{array}$$

m. 
$$\begin{array}{r} 7 \overline{)994} \overline{)142} \\ - 7 \phantom{00} \\ \hline 29 \phantom{00} \\ - 28 \phantom{00} \\ \hline 14 \phantom{00} \\ - 14 \phantom{00} \\ \hline 00 \end{array}$$

n. 
$$\begin{array}{r} 8 \overline{)976} \overline{)122} \\ - 8 \phantom{00} \\ \hline 17 \phantom{00} \\ - 16 \phantom{00} \\ \hline 16 \phantom{00} \\ - 16 \phantom{00} \\ \hline 00 \end{array}$$

o. 
$$\begin{array}{r} 5 \overline{)975} \overline{)195} \\ - 5 \phantom{00} \\ \hline 47 \phantom{00} \\ - 45 \phantom{00} \\ \hline 25 \phantom{00} \\ - 25 \phantom{00} \\ \hline 00 \end{array}$$

p. 
$$\begin{array}{r} 2 \overline{)744} \overline{)372} \\ - 6 \\ \hline 16 \\ - 16 \\ \hline 004 \\ - 04 \\ \hline 00 \end{array}$$

q. 
$$\begin{array}{r} 2 \overline{)586} \overline{)293} \\ - 4 \\ \hline 18 \\ - 18 \\ \hline 006 \\ - 06 \\ \hline 00 \end{array}$$

r. 
$$\begin{array}{r} 3 \overline{)846} \overline{)282} \\ - 6 \\ \hline 24 \\ - 24 \\ \hline 006 \\ - 06 \\ \hline 00 \end{array}$$

s. 
$$\begin{array}{r} 7 \overline{)770} \overline{)110} \\ - 7 \\ \hline 07 \\ - 07 \\ \hline 00 \\ - 00 \\ \hline 00 \end{array}$$

t. 
$$\begin{array}{r} 4 \overline{)472} \overline{)118} \\ - 4 \\ \hline 07 \\ - 07 \\ \hline 32 \\ - 32 \\ \hline 00 \end{array}$$

2. Divide the following using the long division method.

a. 
$$\begin{array}{r} 3 \overline{)999} \overline{)333} \\ - 9 \\ \hline 09 \\ - 09 \\ \hline 09 \\ - 09 \\ \hline 00 \end{array}$$

b. 
$$\begin{array}{r} 8 \overline{)888} \overline{)111} \\ - 8 \\ \hline 08 \\ - 08 \\ \hline 08 \\ - 08 \\ \hline 00 \end{array}$$

c. 
$$\begin{array}{r} 2 \overline{)466} \overline{)233} \\ - 4 \\ \hline 06 \\ - 06 \\ \hline 06 \\ - 06 \\ \hline 00 \end{array}$$

d. 
$$\begin{array}{r} 5 \overline{)555} \overline{)111} \\ - 5 \\ \hline 05 \\ - 05 \\ \hline 05 \\ - 05 \\ \hline 00 \end{array}$$

e. 
$$\begin{array}{r} 7 \overline{)777} \overline{)111} \\ - 7 \\ \hline 07 \\ - 07 \\ \hline 07 \\ - 07 \\ \hline 00 \end{array}$$

f. 
$$\begin{array}{r} 3 \overline{)369} \overline{)123} \\ - 3 \\ \hline 06 \\ - 06 \\ \hline 09 \\ - 09 \\ \hline 00 \end{array}$$

g. 
$$\begin{array}{r} 3 \overline{)447} \overline{)149} \\ - 3 \\ \hline 14 \\ - 12 \\ \hline 27 \\ - 27 \\ \hline 00 \end{array}$$

h. 
$$\begin{array}{r} 2 \overline{)828} \overline{)414} \\ - 8 \\ \hline 02 \\ - 02 \\ \hline 08 \\ - 08 \\ \hline 00 \end{array}$$

i. 
$$\begin{array}{r} 5 \overline{)535} \overline{)107} \\ - 5 \\ \hline 35 \\ - 35 \\ \hline 00 \end{array}$$

$$\begin{array}{r} \text{j. } 2 \overline{)346} \begin{array}{l} 173 \\ - 2 \\ \hline 14 \\ - 14 \\ \hline 006 \\ - 06 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{k. } 3 \overline{)633} \begin{array}{l} 211 \\ - 6 \\ \hline 03 \\ - 03 \\ \hline 03 \\ - 03 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{l. } 7 \overline{)854} \begin{array}{l} 122 \\ - 7 \\ \hline 15 \\ - 14 \\ \hline 14 \\ - 14 \\ \hline 00 \end{array} \end{array}$$

### Exercise 7 F

#### 1. Divide the following.

$$\begin{array}{r} \text{a. } 5 \overline{)100} \begin{array}{l} 20 \\ - 10 \\ \hline 00 \\ - 00 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{b. } 3 \overline{)600} \begin{array}{l} 200 \\ - 6 \\ \hline 00 \\ - 00 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{c. } 3 \overline{)900} \begin{array}{l} 300 \\ - 90 \\ \hline 00 \\ - 00 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{d. } 4 \overline{)800} \begin{array}{l} 300 \\ - 8 \\ \hline 00 \\ - 00 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{e. } 5 \overline{)150} \begin{array}{l} 30 \\ - 15 \\ \hline 00 \\ - 00 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{f. } 3 \overline{)180} \begin{array}{l} 60 \\ - 18 \\ \hline 00 \\ - 00 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{g. } 4 \overline{)160} \begin{array}{l} 40 \\ - 16 \\ \hline 00 \\ - 00 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{h. } 3 \overline{)180} \begin{array}{l} 60 \\ - 18 \\ \hline 00 \\ - 00 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{i. } 5 \overline{)500} \begin{array}{l} 100 \\ - 5 \\ \hline 00 \\ - 00 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{j. } 2 \overline{)800} \begin{array}{l} 400 \\ - 8 \\ \hline 00 \\ - 00 \\ \hline 00 \end{array} \end{array}$$

#### 2. Solve the following.

$$\begin{array}{r} \text{a. } 5 \overline{)100} \begin{array}{l} 20 \\ - 10 \\ \hline 00 \\ - 00 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{b. } 3 \overline{)150} \begin{array}{l} 50 \\ - 15 \\ \hline 00 \\ - 00 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{c. } 4 \overline{)200} \begin{array}{l} 50 \\ - 20 \\ \hline 00 \\ - 00 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{d. } 5 \overline{)300} \begin{array}{l} 60 \\ - 30 \\ \hline 00 \\ - 00 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{e. } 5 \overline{)200} \begin{array}{l} 40 \\ - 20 \\ \hline 00 \\ - 00 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{f. } 5 \overline{)140} \begin{array}{l} 28 \\ - 10 \\ \hline 40 \\ - 40 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{g. } 2 \overline{)400} \begin{array}{l} 200 \\ - 4 \\ \hline 00 \\ - 00 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{h. } 2 \overline{)500} \begin{array}{l} 250 \\ - 4 \\ \hline 10 \\ - 10 \\ \hline 0 \\ 0 \\ \hline 0 \end{array} \end{array}$$

### 3. Divide the following.

a. 
$$\begin{array}{r} 6 \overline{)300}(50 \\ - 30 \phantom{00} \\ \hline 00 \\ - 00 \\ \hline 00 \end{array}$$

b. 
$$\begin{array}{r} 5 \overline{)150}(30 \\ - 15 \phantom{00} \\ \hline 00 \\ - 00 \\ \hline 00 \end{array}$$

c. 
$$\begin{array}{r} 5 \overline{)600}(120 \\ - 5 \phantom{00} \\ \hline 10 \\ - 10 \\ \hline 0 \\ 0 \\ \hline 00 \end{array}$$

d. 
$$\begin{array}{r} 4 \overline{)800}(200 \\ - 8 \phantom{00} \\ \hline 00 \\ - 00 \\ \hline 00 \end{array}$$

e. 
$$\begin{array}{r} 4 \overline{)400}(100 \\ - 4 \phantom{00} \\ \hline 00 \\ - 00 \\ \hline 00 \end{array}$$

f. 
$$\begin{array}{r} 3 \overline{)600}(200 \\ - 6 \phantom{00} \\ \hline 00 \\ - 00 \\ \hline 00 \end{array}$$

g. 
$$\begin{array}{r} 7 \overline{)700}(100 \\ - 7 \phantom{00} \\ \hline 00 \\ - 00 \\ \hline 00 \end{array}$$

h. 
$$\begin{array}{r} 3 \overline{)900}(300 \\ - 9 \phantom{00} \\ \hline 00 \\ - 00 \\ \hline 00 \end{array}$$

### Exercise 7 G

#### 1. Divide the following.

a. 
$$\begin{array}{r} 2 \overline{)6482}(3241 \\ - 6 \phantom{00} \\ \hline 04 \\ - 04 \\ \hline 08 \\ - 08 \\ \hline 02 \\ - 02 \\ \hline 0 \end{array}$$

b. 
$$\begin{array}{r} 5 \overline{)9445}(1889 \\ - 5 \phantom{00} \\ \hline 44 \\ - 40 \\ \hline 44 \\ - 40 \\ \hline 45 \\ - 45 \\ \hline 00 \end{array}$$

c. 
$$\begin{array}{r} 5 \overline{)7420}(1484 \\ - 5 \phantom{00} \\ \hline 24 \\ - 20 \\ \hline 42 \\ - 40 \\ \hline 20 \\ - 20 \\ \hline 00 \end{array}$$

d. 
$$\begin{array}{r} 2 \overline{)8430}(4215 \\ - 8 \phantom{00} \\ \hline 04 \\ - 04 \\ \hline 03 \\ - 02 \\ \hline 10 \\ - 10 \\ \hline 00 \end{array}$$

e. 
$$\begin{array}{r} 6 \overline{)4116}(686 \\ - 36 \phantom{00} \\ \hline 51 \\ - 48 \\ \hline 36 \\ - 36 \\ \hline 00 \end{array}$$

f. 
$$\begin{array}{r} 8 \overline{)7608}(951 \\ - 72 \phantom{00} \\ \hline 40 \\ - 40 \\ \hline 08 \\ - 08 \\ \hline 00 \end{array}$$

$$\begin{array}{r} \text{g. } 5 \overline{)9575} \begin{array}{l} 1915 \\ -5 \\ \hline 45 \\ -45 \\ \hline 07 \\ -05 \\ \hline 25 \\ -25 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{h. } 3 \overline{)3408} \begin{array}{l} 1136 \\ -3 \\ \hline 04 \\ -03 \\ \hline 10 \\ -09 \\ \hline 18 \\ -18 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{i. } 2 \overline{)3578} \begin{array}{l} 1789 \\ -2 \\ \hline 15 \\ -14 \\ \hline 17 \\ -16 \\ \hline 18 \\ -18 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{j. } 3 \overline{)9633} \begin{array}{l} 3211 \\ -9 \\ \hline 06 \\ -06 \\ \hline 03 \\ -03 \\ \hline 03 \\ -03 \\ \hline 00 \end{array} \end{array}$$

2. Divide the following using the long division method.

$$\begin{array}{r} \text{a. } 2 \overline{)6342} \begin{array}{l} 3171 \\ -6 \\ \hline 03 \\ -02 \\ \hline 14 \\ -14 \\ \hline 02 \\ -02 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{b. } 3 \overline{)3693} \begin{array}{l} 1232 \\ -3 \\ \hline 06 \\ -06 \\ \hline 09 \\ -09 \\ \hline 03 \\ -03 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{c. } 4 \overline{)5084} \begin{array}{l} 1271 \\ -4 \\ \hline 10 \\ -08 \\ \hline 028 \\ -28 \\ \hline 04 \\ -04 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{d. } 3 \overline{)3663} \begin{array}{l} 1221 \\ -3 \\ \hline 06 \\ -06 \\ \hline 06 \\ -06 \\ \hline 03 \\ -03 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{e. } 2 \overline{)6666} \begin{array}{l} 3333 \\ -6 \\ \hline 06 \\ -06 \\ \hline 06 \\ -06 \\ \hline 06 \\ -06 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{f. } 5 \overline{)5555} \begin{array}{l} 1111 \\ -5 \\ \hline 05 \\ -05 \\ \hline 05 \\ -05 \\ \hline 05 \\ -05 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{g. } 5 \overline{)6585} \begin{array}{l} 1317 \\ -5 \\ \hline 15 \\ -15 \\ \hline 08 \\ -05 \\ \hline 35 \\ -35 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{h. } 2 \overline{)8246} \begin{array}{l} 4123 \\ -8 \\ \hline 02 \\ -02 \\ \hline 04 \\ -04 \\ \hline 06 \\ -06 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{i. } 4 \overline{)4728} \begin{array}{l} 1182 \\ -4 \\ \hline 07 \\ -04 \\ \hline 32 \\ -32 \\ \hline 08 \\ -08 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{j. } 5 \overline{)5760} \begin{array}{l} 1152 \\ -5 \\ \hline 07 \\ -05 \\ \hline 26 \\ -25 \\ \hline 10 \\ -10 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{k. } 3 \overline{)9933} \begin{array}{l} 3311 \\ -9 \\ \hline 09 \\ -09 \\ \hline 03 \\ -03 \\ \hline 03 \\ -03 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{l. } 4 \overline{)7524} \begin{array}{l} 1881 \\ -4 \\ \hline 35 \\ -32 \\ \hline 32 \\ -32 \\ \hline 04 \\ -04 \\ \hline 00 \end{array} \end{array}$$

3. Divide the following using the long division method.

$$\begin{array}{r} \text{a. } 8 \overline{)9696} \begin{array}{l} 1212 \\ -8 \\ \hline 16 \\ -16 \\ \hline 09 \\ -08 \\ \hline 16 \\ -16 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{b. } 6 \overline{)4116} \begin{array}{l} 686 \\ -36 \\ \hline 51 \\ -48 \\ \hline 36 \\ -36 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{c. } 5 \overline{)9050} \begin{array}{l} 181 \\ -5 \\ \hline 40 \\ -40 \\ \hline 05 \\ -05 \\ \hline 00 \\ -00 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{d. } 8 \overline{)7824} \begin{array}{l} 953 \\ -72 \\ \hline 42 \\ -40 \\ \hline 24 \\ -24 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{e. } 9 \overline{)4563} \begin{array}{l} 507 \\ -45 \\ \hline 63 \\ -63 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{f. } 2 \overline{)4826} \begin{array}{l} 2413 \\ -4 \\ \hline 08 \\ -08 \\ \hline 02 \\ -02 \\ \hline 06 \\ -06 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{g. } 2 \overline{)2898} \begin{array}{l} 1449 \\ -2 \\ \hline 08 \\ -08 \\ \hline 09 \\ -08 \\ \hline 18 \\ -18 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{h. } 3 \overline{)2856} \begin{array}{l} 952 \\ -27 \\ \hline 15 \\ -15 \\ \hline 06 \\ -06 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{i. } 3 \overline{)3333} \begin{array}{l} 1111 \\ -3 \\ \hline 03 \\ -03 \\ \hline 03 \\ -03 \\ \hline 03 \\ -03 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{j. } 7 \overline{)1638} \begin{array}{l} 234 \\ -14 \\ \hline 23 \\ -21 \\ \hline 28 \\ -28 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{k. } 9 \overline{)7839} \begin{array}{l} 871 \\ -72 \\ \hline 63 \\ -63 \\ \hline 09 \\ -09 \\ \hline 00 \end{array} \end{array}$$

$$\begin{array}{r} \text{l. } 6 \overline{)7896} \begin{array}{l} 1316 \\ -6 \\ \hline 18 \\ -18 \\ \hline 09 \\ -6 \\ \hline 36 \\ -36 \\ \hline 00 \end{array} \end{array}$$

### Exercise 7 H

1. Divide the following. Also, verify your answer.

$$\begin{array}{r} \text{a. } 3 \overline{)95} \begin{array}{l} 31 \\ -9 \\ \hline 05 \\ -03 \\ \hline 2 \end{array} \end{array}$$

**Verification:**

Dividend = 95, Remainder = 2, Quotient = 31, Divisor = 3

$$95 = 3 \times 31 + 2$$

$$95 = 95$$

$$\begin{array}{r} \text{b. } 4 \overline{)61} \begin{array}{l} 15 \\ -4 \\ \hline 21 \\ -20 \\ \hline 1 \end{array} \end{array}$$

**Verification:**

Dividend = 61, Remainder = 4, Quotient = 15, Divisor = 4

$$61 = 4 \times 15 + 1$$

$$61 = 60 + 1$$

$$61 = 61$$

$$\begin{array}{r} \text{c. } 5 \overline{)64} \begin{array}{l} 12 \\ -5 \\ \hline 14 \\ -10 \\ \hline 4 \end{array} \end{array}$$

**Verification:**

Dividend = 64, Remainder = 4, Quotient = 12, Divisor = 5

$$64 = 5 \times 12 + 4$$

$$64 = 60 + 4$$

$$64 = 64$$

$$\begin{array}{r} 2 \overline{) 31} 15 \\ \underline{- 2} \\ 11 \\ \underline{- 10} \\ 1 \end{array}$$

**Verification:**

Dividend = 31, Remainder = 1, Quotient = 15, Divisor = 2  
 $31 = 2 \times 15 + 1$   
 $31 = 30 + 1$   
 $31 = 31$

$$\begin{array}{r} 6 \overline{) 89} 14 \\ \underline{- 6} \\ 29 \\ \underline{- 24} \\ 5 \end{array}$$

**Verification:**

Dividend = 89, Remainder = 5, Quotient = 14, Divisor = 6  
 $89 = 6 \times 14 + 5$   
 $89 = 84 + 5$   
 $89 = 89$

$$\begin{array}{r} 3 \overline{) 85} 28 \\ \underline{- 6} \\ 25 \\ \underline{- 24} \\ 1 \end{array}$$

**Verification:**

Dividend = 85, Remainder = 1, Quotient = 28, Divisor = 3  
 $85 = 3 \times 28 + 1$   
 $85 = 84 + 1$   
 $85 = 85$

$$\begin{array}{r} 4 \overline{) 77} 19 \\ \underline{- 4} \\ 37 \\ \underline{- 36} \\ 1 \end{array}$$

**Verification:**

Dividend = 77, Remainder = 1, Quotient = 19, Divisor = 4  
 $77 = 4 \times 19 + 1$   
 $77 = 76 + 1$   
 $77 = 77$

$$\begin{array}{r} 6 \overline{) 95} 15 \\ \underline{- 6} \\ 35 \\ \underline{- 30} \\ 6 \end{array}$$

**Verification:**

Dividend = 95, Remainder = 5, Quotient = 15, Divisor = 6  
 $95 = 6 \times 15 + 5$   
 $95 = 90 + 5$   
 $95 = 95$

## 2. Divide the following.

a. 
$$\begin{array}{r} 7 \overline{) 90} 12 \\ \underline{- 7} \\ 20 \\ \underline{- 14} \\ 6 \end{array}$$

b. 
$$\begin{array}{r} 4 \overline{) 85} 21 \\ \underline{- 8} \\ 05 \\ \underline{- 04} \\ 1 \end{array}$$

c. 
$$\begin{array}{r} 5 \overline{) 86} 17 \\ \underline{- 5} \\ 36 \\ \underline{- 35} \\ 1 \end{array}$$

d. 
$$\begin{array}{r} 6 \overline{) 87} 14 \\ \underline{- 6} \\ 27 \\ \underline{- 24} \\ 3 \end{array}$$

e. 
$$\begin{array}{r} 8 \overline{) 89} 11 \\ \underline{- 8} \\ 09 \\ \underline{- 08} \\ 1 \end{array}$$

f. 
$$\begin{array}{r} 5 \overline{)72} 14 \\ - 5 \phantom{0} \\ \hline 22 \\ - 20 \\ \hline 2 \end{array}$$

g. 
$$\begin{array}{r} 3 \overline{)24} 74 \\ - 6 \phantom{0} \\ \hline 14 \\ - 12 \\ \hline 2 \end{array}$$

h. 
$$\begin{array}{r} 4 \overline{)75} 18 \\ - 4 \phantom{0} \\ \hline 35 \\ - 32 \\ \hline 3 \end{array}$$

i. 
$$\begin{array}{r} 4 \overline{)58} 14 \\ - 4 \phantom{0} \\ \hline 18 \\ - 16 \\ \hline 2 \end{array}$$

j. 
$$\begin{array}{r} 2 \overline{)67} 33 \\ - 6 \phantom{0} \\ \hline 7 \\ - 6 \\ \hline 1 \end{array}$$

### Exercise 7 I

1. Divide the following.

a. 
$$\begin{array}{r} 4 \overline{)735} 183 \\ - 4 \phantom{00} \\ \hline 33 \\ - 32 \\ \hline 15 \\ - 12 \\ \hline 3 \end{array}$$

b. 
$$\begin{array}{r} 5 \overline{)944} 188 \\ - 5 \phantom{00} \\ \hline 44 \\ - 40 \\ \hline 44 \\ - 40 \\ \hline 4 \end{array}$$

c. 
$$\begin{array}{r} 7 \overline{)869} 124 \\ - 7 \phantom{00} \\ \hline 16 \\ - 14 \\ \hline 29 \\ - 28 \\ \hline 1 \end{array}$$

d. 
$$\begin{array}{r} 8 \overline{)946} 118 \\ - 8 \phantom{00} \\ \hline 14 \\ - 8 \phantom{0} \\ \hline 66 \\ - 64 \\ \hline 2 \end{array}$$

e. 
$$\begin{array}{r} 3 \overline{)847} 282 \\ - 6 \phantom{00} \\ \hline 24 \\ - 24 \\ \hline 7 \\ - 6 \\ \hline 1 \end{array}$$

f. 
$$\begin{array}{r} 2 \overline{)957} 478 \\ - 8 \phantom{00} \\ \hline 15 \\ - 14 \\ \hline 17 \\ - 16 \\ \hline 1 \end{array}$$

g. 
$$\begin{array}{r} 4 \overline{)685} 171 \\ - 4 \phantom{00} \\ \hline 28 \\ - 28 \\ \hline 5 \\ - 4 \\ \hline 1 \end{array}$$

h. 
$$\begin{array}{r} 5 \overline{)786} 282 \\ - 5 \phantom{00} \\ \hline 28 \\ - 25 \\ \hline 36 \\ - 35 \\ \hline 1 \end{array}$$

i. 
$$\begin{array}{r} 4 \overline{)386} 96 \\ - 36 \phantom{0} \\ \hline 25 \\ - 24 \\ \hline 2 \end{array}$$

j. 
$$\begin{array}{r} 5 \overline{)517} 96 \\ - 5 \phantom{00} \\ \hline 17 \\ - 15 \\ \hline 2 \end{array}$$

**2. Divide the following. Also, verify the answer.**

a.

$$\begin{array}{r} 2 \overline{)377} 188 \\ - 2 \phantom{00} \\ \hline 17 \phantom{00} \\ - 16 \phantom{00} \\ \hline 17 \phantom{00} \\ - 16 \phantom{00} \\ \hline 1 \phantom{00} \\ \hline \end{array}$$

**Verification:**

Dividend = 377, Remainder = 1, Quotient = 188, Divisor = 2

$$377 = 2 \times 188 + 1$$

$$377 = 376 + 1$$

$$377 = 377$$

b.

$$\begin{array}{r} 3 \overline{)679} 226 \\ - 6 \phantom{00} \\ \hline 7 \phantom{00} \\ - 6 \phantom{00} \\ \hline 19 \phantom{00} \\ - 18 \phantom{00} \\ \hline 1 \phantom{00} \\ \hline \end{array}$$

**Verification:**

Dividend = 679, Remainder = 2, Quotient = 226, Divisor = 3

$$679 = 226 \times 3 + 1$$

$$679 = 678 + 1$$

$$679 = 679$$

c.

$$\begin{array}{r} 9 \overline{)995} 110 \\ - 9 \phantom{00} \\ \hline 09 \phantom{00} \\ - 09 \phantom{00} \\ \hline 05 \phantom{00} \\ \hline \end{array}$$

**Verification:**

Dividend = 995, Remainder = 5, Quotient = 110, Divisor = 9

$$995 = 9 \times 110 + 5$$

$$995 = 990 + 5$$

$$995 = 995$$

d.

$$\begin{array}{r} 8 \overline{)978} 122 \\ - 8 \phantom{00} \\ \hline 17 \phantom{00} \\ - 16 \phantom{00} \\ \hline 18 \phantom{00} \\ - 16 \phantom{00} \\ \hline 2 \phantom{00} \\ \hline \end{array}$$

**Verification:**

Dividend = 978, Remainder = 2, Quotient = 122, Divisor = 8

$$978 = 8 \times 122 + 2$$

$$978 = 976 + 2$$

$$978 = 978$$

e.

$$\begin{array}{r} 3 \overline{)382} 127 \\ - 3 \phantom{00} \\ \hline 08 \phantom{00} \\ - 6 \phantom{00} \\ \hline 22 \phantom{00} \\ - 21 \phantom{00} \\ \hline 1 \phantom{00} \\ \hline \end{array}$$

**Verification:**

Dividend = 382, Remainder = 1, Quotient = 127, Divisor = 3

$$382 = 3 \times 127 + 1$$

$$382 = 381 + 1$$

$$382 = 382$$

$$\begin{array}{r}
 2 \overline{)735} 367 \\
 \underline{-6} \phantom{00} \\
 13 \phantom{00} \\
 \underline{-12} \phantom{00} \\
 15 \phantom{00} \\
 \underline{-14} \phantom{00} \\
 1
 \end{array}$$

**Verification:**

Dividend = 735, Remainder = 1, Quotient = 367, Divisor = 2

$$735 = 2 \times 367 + 1$$

$$735 = 734 + 1$$

$$735 = 735$$

g.

$$\begin{array}{r}
 3 \overline{)583} 196 \\
 \underline{-3} \phantom{00} \\
 28 \phantom{00} \\
 \underline{-27} \phantom{00} \\
 13 \phantom{00} \\
 \underline{-12} \phantom{00} \\
 1
 \end{array}$$

**Verification:**

Dividend = 583, Remainder = 1, Quotient = 196, Divisor = 3

$$583 = 3 \times 196 + 1$$

$$583 = 582 + 1$$

$$583 = 583$$

h.

$$\begin{array}{r}
 7 \overline{)998} 142 \\
 \underline{-7} \phantom{00} \\
 29 \phantom{00} \\
 \underline{-28} \phantom{00} \\
 18 \phantom{00} \\
 \underline{-14} \phantom{00} \\
 4
 \end{array}$$

**Verification:**

Dividend = 998, Remainder = 4, Quotient = 142, Divisor = 7

$$998 = 7 \times 142 + 4$$

$$998 = 994 + 4$$

$$998 = 998$$

### Exercise 7 J

1. Divide the following.

a. 
$$\begin{array}{r}
 7 \overline{)3708} 529 \\
 \underline{-35} \phantom{00} \\
 20 \phantom{00} \\
 \underline{-14} \phantom{00} \\
 68 \phantom{00} \\
 \underline{-63} \phantom{00} \\
 5
 \end{array}$$

b. 
$$\begin{array}{r}
 9 \overline{)3869} 4298 \\
 \underline{-36} \phantom{00} \\
 26 \phantom{00} \\
 \underline{-18} \phantom{00} \\
 89 \phantom{00} \\
 \underline{-81} \phantom{00} \\
 80 \phantom{00} \\
 \underline{-72} \phantom{00} \\
 8
 \end{array}$$

c. 
$$\begin{array}{r}
 6 \overline{)6728} 1121 \\
 \underline{-6} \phantom{00} \\
 7 \phantom{00} \\
 \underline{-6} \phantom{00} \\
 12 \phantom{00} \\
 \underline{-12} \phantom{00} \\
 08 \phantom{00} \\
 \underline{-06} \phantom{00} \\
 2
 \end{array}$$

d. 
$$\begin{array}{r}
 6 \overline{)4785} 797 \\
 \underline{-42} \phantom{00} \\
 58 \phantom{00} \\
 \underline{-54} \phantom{00} \\
 45 \phantom{00} \\
 \underline{-42} \phantom{00} \\
 3
 \end{array}$$

**2. Divide the following. Also, verify the answer.**

a. 
$$\begin{array}{r} 7 \overline{)9052} \phantom{1293} \\ \underline{-7} \phantom{0000} \\ 20 \phantom{000} \\ \underline{-14} \phantom{000} \\ 65 \phantom{00} \\ \underline{-12} \phantom{00} \\ 22 \phantom{0} \\ \underline{-21} \phantom{0} \\ 1 \phantom{0} \end{array}$$

**Verification:**

Dividend = 9052, Remainder = 1,

Quotient = 1293, Divisor = 7

$$9052 = 7 \times 1293 + 1$$

$$9052 = 9051 + 1$$

$$9052 = 9052$$

b. 
$$\begin{array}{r} 7 \overline{)3515} \phantom{502} \\ \underline{-35} \phantom{000} \\ 15 \phantom{00} \\ \underline{-14} \phantom{00} \\ 1 \phantom{00} \end{array}$$

**Verification:**

Dividend = 3515, Remainder = 1,

Quotient = 502, Divisor = 7

$$3515 = 7 \times 502 + 1$$

$$3515 = 3514 + 1$$

$$3515 = 3515$$

c. 
$$\begin{array}{r} 5 \overline{)2416} \phantom{483} \\ \underline{-20} \phantom{000} \\ 41 \phantom{00} \\ \underline{-40} \phantom{00} \\ 16 \phantom{0} \\ \underline{-15} \phantom{0} \\ 1 \phantom{0} \end{array}$$

**Verification:**

Dividend = 2416, Remainder = 1,

Quotient = 483, Divisor = 4

$$2416 = 5 \times 483 + 1$$

$$2416 = 2415 + 1$$

$$2416 = 2416$$

d. 
$$\begin{array}{r} 4 \overline{)1037} \phantom{259} \\ \underline{-8} \phantom{000} \\ 23 \phantom{00} \\ \underline{-20} \phantom{00} \\ 37 \phantom{0} \\ \underline{-36} \phantom{0} \\ 1 \phantom{0} \end{array}$$

**Verification:**

Dividend = 1037, Remainder = 1,

Quotient = 259, Divisor = 4

$$1037 = 4 \times 259 + 1$$

$$1037 = 1036 + 1$$

$$1037 = 1037$$

e. 
$$\begin{array}{r} 8 \overline{)9005} \phantom{1125} \\ \underline{-8} \phantom{0000} \\ 10 \phantom{000} \\ \underline{-8} \phantom{000} \\ 20 \phantom{000} \\ \underline{-16} \phantom{000} \\ 45 \phantom{00} \\ \underline{-40} \phantom{00} \\ 5 \phantom{00} \end{array}$$

**Verification:**

Dividend = 9005, Remainder = 5,

Quotient = 1125, Divisor = 8

$$9005 = 8 \times 1125 + 5$$

$$9005 = 9000 + 5$$

$$9005 = 9005$$

f. 
$$\begin{array}{r} 3 \overline{)8705} \left( 2901 \right. \\ \underline{-6} \phantom{00} \\ 27 \phantom{00} \\ \underline{-27} \phantom{00} \\ 5 \phantom{00} \\ \underline{-3} \phantom{00} \\ 2 \end{array}$$

**Verification:**  
 Dividend = 8405, Remainder = 2,  
 Quotient = 2901, Divisor = 3  
 $8705 = 3 \times 2901 + 2$   
 $8705 = 8703 + 2$   
 $8705 = 8705$

g. 
$$\begin{array}{r} 2 \overline{)9213} \left( 4606 \right. \\ \underline{-8} \phantom{00} \\ 12 \phantom{00} \\ \underline{-12} \phantom{00} \\ 13 \phantom{00} \\ \underline{-12} \phantom{00} \\ 1 \end{array}$$

**Verification:**  
 Dividend = 9213, Remainder = 1,  
 Quotient = 4606, Divisor = 2  
 $9213 = 2 \times 4606 + 1$   
 $9213 = 9212 + 1$   
 $9213 = 9213$

h. 
$$\begin{array}{r} 6 \overline{)6615} \left( 1102 \right. \\ \underline{-6} \phantom{00} \\ 06 \phantom{00} \\ \underline{-6} \phantom{00} \\ 015 \phantom{00} \\ \underline{-12} \phantom{00} \\ 3 \end{array}$$

**Verification:**  
 Dividend = 6615, Remainder = 3,  
 Quotient = 1102, Divisor = 6  
 $6615 = 6 \times 1102 + 3$   
 $6615 = 6612 + 3$   
 $6615 = 6615$

i. 
$$\begin{array}{r} 9 \overline{)3655} \left( 406 \right. \\ \underline{-36} \phantom{00} \\ 55 \phantom{00} \\ \underline{-54} \phantom{00} \\ 1 \end{array}$$

**Verification:**  
 Dividend = 3655, Remainder = 1,  
 Quotient = 406, Divisor = 9  
 $3655 = 9 \times 406 + 1$   
 $3655 = 3654 + 1$   
 $3655 = 3655$

j. 
$$\begin{array}{r} 5 \overline{)7864} \left( 1572 \right. \\ \underline{-5} \phantom{00} \\ 28 \phantom{00} \\ \underline{-25} \phantom{00} \\ 36 \phantom{00} \\ \underline{-35} \phantom{00} \\ 14 \phantom{00} \\ \underline{-10} \phantom{00} \\ 4 \end{array}$$

**Verification:**  
 Dividend = 7864, Remainder = 4,  
 Quotient = 1572, Divisor = 5  
 $7864 = 5 \times 1572 + 4$   
 $7864 = 7860 + 4$   
 $7864 = 7864$

$$\begin{array}{r}
 \text{k. } 8 \overline{)7851} \begin{array}{l} 981 \\ -72 \\ \hline 65 \\ -64 \\ \hline 11 \\ -8 \\ \hline 3 \end{array} \\
 \hline
 \end{array}$$

**Verification:**

Dividend = 7851, Remainder = 3,

Quotient = 981, Divisor = 8

$7851 = 8 \times 981 + 3$

$7851 = 7848 + 3$

$7851 = 7851$

$$\begin{array}{r}
 \text{l. } 7 \overline{)9468} \begin{array}{l} 1352 \\ -7 \\ \hline 24 \\ -21 \\ \hline 36 \\ -35 \\ \hline 18 \\ -14 \\ \hline 4 \end{array} \\
 \hline
 \end{array}$$

**Verification:**

Dividend = 9468, Remainder = 4,

Quotient = 1352, Divisor = 7

$9468 = 7 \times 1352 + 4$

$9468 = 9464 + 4$

$9468 = 9468$

### Exercise 7 K

1. Divide the following and find out, the quotient and remainder in each.

$$\begin{array}{r}
 \text{a. } 10 \overline{)708} \begin{array}{l} 70 \\ -70 \\ \hline 008 \\ -0 \\ \hline 8 \end{array} \\
 \hline
 \end{array}$$

Quotient = 70

Remainder = 8

$$\begin{array}{r}
 \text{b. } 10 \overline{)930} \begin{array}{l} 93 \\ -90 \\ \hline 30 \\ -30 \\ \hline 00 \end{array} \\
 \hline
 \end{array}$$

Quotient = 93

Remainder = 0

$$\begin{array}{r}
 \text{c. } 10 \overline{)75} \begin{array}{l} 7 \\ -70 \\ \hline 05 \end{array} \\
 \hline
 \end{array}$$

Quotient = 7

Remainder = 5

$$\begin{array}{r}
 \text{d. } 10 \overline{)85} \begin{array}{l} 8 \\ -80 \\ \hline 05 \end{array} \\
 \hline
 \end{array}$$

Quotient = 8

Remainder = 5

$$\begin{array}{r}
 \text{e. } 10 \overline{)56} \begin{array}{l} 5 \\ -50 \\ \hline 06 \end{array} \\
 \hline
 \end{array}$$

Quotient = 5

Remainder = 6

2. Divide the following and find out, the quotient and remainder in each.

a. 
$$\begin{array}{r} 10 \overline{)45} \text{ } 4 \\ - 40 \\ \hline 5 \end{array}$$

Quotient = 4  
Remainder = 5

b. 
$$\begin{array}{r} 10 \overline{)57} \text{ } 5 \\ - 50 \\ \hline 7 \end{array}$$

Quotient = 5  
Remainder = 7

c. 
$$\begin{array}{r} 10 \overline{)765} \text{ } 76 \\ - 70 \\ \hline 65 \\ - 60 \\ \hline 05 \end{array}$$

Quotient = 76  
Remainder = 5

d. 
$$\begin{array}{r} 10 \overline{)347} \text{ } 34 \\ - 30 \\ \hline 47 \\ - 40 \\ \hline 07 \end{array}$$

Quotient = 34  
Remainder = 7

e. 
$$\begin{array}{r} 10 \overline{)6503} \text{ } 650 \\ - 60 \\ \hline 50 \\ - 50 \\ \hline 003 \\ - 0 \\ \hline 3 \end{array}$$

Quotient = 650  
Remainder = 3

f. 
$$\begin{array}{r} 10 \overline{)1237} \text{ } 123 \\ - 10 \\ \hline 23 \\ - 20 \\ \hline 37 \\ - 30 \\ \hline 7 \end{array}$$

Quotient = 123  
Remainder = 7

g. 
$$\begin{array}{r} 10 \overline{)867} \text{ } 86 \\ - 80 \\ \hline 67 \\ - 60 \\ \hline 07 \end{array}$$

Quotient = 86  
Remainder = 7

h. 
$$\begin{array}{r} 10 \overline{)999} \text{ } 99 \\ - 90 \\ \hline 99 \\ - 90 \\ \hline 9 \end{array}$$

Quotient = 99  
Remainder = 9

i. 
$$\begin{array}{r} 10 \overline{)432} \text{ } 43 \\ - 40 \\ \hline 32 \\ - 30 \\ \hline 02 \end{array}$$

Quotient = 43  
Remainder = 2

j. 
$$\begin{array}{r} 10 \overline{)981} \text{ } 98 \\ - 90 \\ \hline 81 \\ - 80 \\ \hline 1 \end{array}$$

Quotient = 98  
Remainder = 1

k. 
$$\begin{array}{r} 10 \overline{)761} \text{ } 76 \\ - 70 \\ \hline 61 \\ - 60 \\ \hline 1 \end{array}$$

Quotient = 76  
Remainder = 1

l. 
$$\begin{array}{r} 10 \overline{)281} \text{ } 28 \\ - 20 \\ \hline 81 \\ - 80 \\ \hline 01 \end{array}$$

Quotient = 28  
Remainder = 1

$$\begin{array}{r} \text{m. } 10 \overline{)962} \begin{array}{l} 96 \\ -90 \\ \hline 62 \\ -60 \\ \hline 2 \end{array} \end{array}$$

Quotient = 96  
Remainder = 2

$$\begin{array}{r} \text{n. } 10 \overline{)862} \begin{array}{l} 86 \\ -80 \\ \hline 62 \\ -60 \\ \hline 2 \end{array} \end{array}$$

Quotient = 86  
Remainder = 2

$$\begin{array}{r} \text{o. } 10 \overline{)865} \begin{array}{l} 86 \\ -80 \\ \hline 65 \\ -60 \\ \hline 5 \end{array} \end{array}$$

Quotient = 86  
Remainder = 5

$$\begin{array}{r} \text{p. } 10 \overline{)112} \begin{array}{l} 11 \\ -10 \\ \hline 12 \\ -10 \\ \hline 2 \end{array} \end{array}$$

Quotient = 11  
Remainder = 2

### Word Problems

- a. Number of boys = 42  
Number of boys can sit on a bench = 7  
Number of benches required =  $42 \div 7$   
There are 6 benches required.

$$\begin{array}{r} 7 \overline{)42} \begin{array}{l} 6 \\ -42 \\ \hline 00 \end{array} \end{array}$$

- b. Number of students in a class = 45  
Number of students in a group = 10  
Number of group made =  $45 \div 10$

There are 4 groups can be made and 5 students will be left over.

$$\begin{array}{r} 10 \overline{)45} \begin{array}{l} 4 \\ -40 \\ \hline 5 \end{array} \end{array}$$

- c. Number of cartoons = 7  
Number of balls = 2732  
Number of balls in each cartoon =  $2732 \div 7$   
Maximum numbers of balls in a cartoon is 390.

$$\begin{array}{r} 7 \overline{)2732} \begin{array}{l} 390 \\ -21 \\ \hline 63 \\ -63 \\ \hline 2 \\ -0 \\ \hline 2 \end{array} \end{array}$$

$$\begin{array}{r} 10 \overline{)840} \begin{array}{l} 84 \\ -80 \\ \hline 40 \\ -40 \\ \hline 0 \end{array} \end{array}$$

- d. Total number of students = 840  
Number of group = 10  
Number of students in each group =  $840 \div 10$   
There 84 groups of students.

- e. Total amount of water = 33 ml  
 Tea spoon holds = 5 ml  
 Number of such tea spoons filled =  $33 \div 5$   
 6 teaspoons can be completely filled.

$$\begin{array}{r} 5 \overline{)33} 6 \\ - 30 \\ \hline 3 \end{array}$$

- f. Number of students = 350  
 Number of rows = 7  
 Number of students in each row =  $350 \div 7$   
 There are 5 students in each row.

$$\begin{array}{r} 7 \overline{)350} 5 \\ - 35 \\ \hline 0 \end{array}$$

- g. Number of wheels in a car = 4  
 Total number of wheels = 440  
 Number of cars made =  $440 \div 4$   
 There are 110 cars can be made.

$$\begin{array}{r} 4 \overline{)440} 110 \\ - 4 \\ \hline 04 \\ - 04 \\ \hline 0 \end{array}$$

### Framing Word Problems

- The cost of 4 Apple is ₹ 72. Find cost of 1 Apple.
- How many groups of 19 students each can be made from a class of 95 students?
- 6 wooden stick in a bundle. How many bundles of wooden stick can be made from 42 wooden sticks?
- Only 7 boys can sit on a bench. How many such benches are required for 560 boys to sit?
- Cost of 9 frames is ₹ 810. Find the price of each frame.
- 100 students go on a trip. They are spilt into 20 equal groups. How many students are there in each groups?
- How many cars can be made using 888 wheels?
- How many two wheeler can be made using 460 wheels?

### HOTS

- The smallest even number = 2  
 8 as quotient if we divide with smallest even number.  
 The 2-digit number is 16
- The smallest odd number = 1  
 9 as quotient if we divide with smallest odd number.  
 The 1-digit number is 9
- The smallest 2-digit number = 10  
 20 as quotient if we divide with smallest 2-digit number.  
 The 3-digit number is 200

4. Largest 4-digit number quotient = 9999  
 =  $9999 \div 3 = 3333$
5. Smallest 4-digit number quotient = 1000  
 =  $1000 \div 5 = 2000$

$$\begin{array}{r} 5 \overline{)1000} \quad 200 \\ -10 \phantom{00} \\ \hline 00 \phantom{00} \\ -00 \phantom{00} \\ \hline 0 \phantom{00} \\ \hline \end{array}$$

$$\begin{array}{r} 3 \overline{)9999} \quad 3333 \\ -9 \phantom{000} \\ \hline 9 \phantom{00} \\ -9 \phantom{00} \\ \hline 9 \phantom{00} \\ -9 \phantom{00} \\ \hline 0 \phantom{00} \\ \hline \end{array}$$

6. I am  $30 \div 3$  years old- My age is 10.
7. I am in class  $39 \div 3$ . She is in class 3.
8. I am  $270 \div 2$  cm tall. My height is 135 cm.

# Fractions

## Exercise 8 A

1. Tick (✓) the shapes which are divided into equal parts.

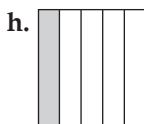
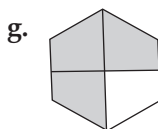
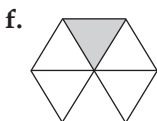
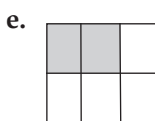
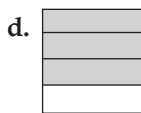
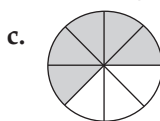
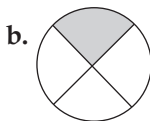
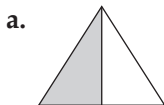
c. ☒

e. ☒

h. ☒

## Exercise 8 B

1. Shade the parts of the shapes to represent the given fractions.



2. Write the shaded parts as a fraction of the whole.

a.  $\frac{2}{4}$

b.  $\frac{2}{6}$

c.  $\frac{1}{6}$

d.  $\frac{1}{8}$

e.  $\frac{5}{8}$

f.  $\frac{7}{8}$

g.  $\frac{1}{4}$

h.  $\frac{6}{8}$

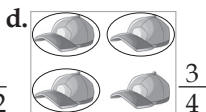
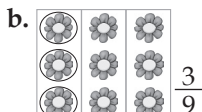
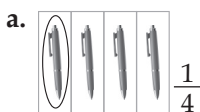
i.  $\frac{5}{6}$

j.  $\frac{4}{8}$

k.  $\frac{1}{2}$

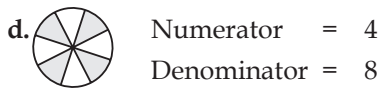
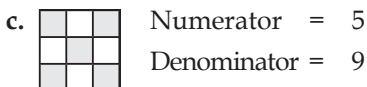
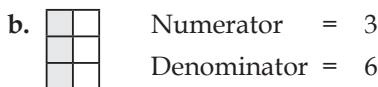
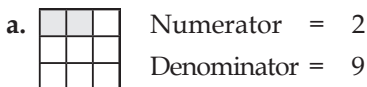
l.  $\frac{2}{4}$

3. Circle the objects according to the given fractions. One has been done for you.



## Exercise 8 C

1. Count the shaded part and write the numerator. Then count the total number of parts and write the denominator.

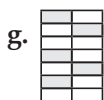




Numerator = 1  
Denominator = 4



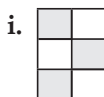
Numerator = 3  
Denominator = 8



Numerator = 5  
Denominator = 14



Numerator = 5  
Denominator = 7



Numerator = 3  
Denominator = 6



Numerator = 2  
Denominator = 5

2. In each of the following write the fractions for the given numerator and the denominator.

a.  $\frac{6}{13}$

b.  $\frac{3}{4}$

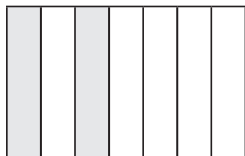
c.  $\frac{7}{15}$

d.  $\frac{5}{9}$

e.  $\frac{15}{18}$

f.  $\frac{1}{6}$

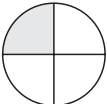
3. Can you write a fraction with number 7 as a denominator?



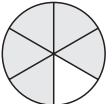
$\frac{2}{7}$

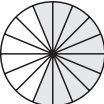
### Exercise 8 D

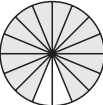
1. In each of the following, shade the shapes for the given equivalent fractions.

a.  $\frac{1}{4}$   =  $\frac{3}{12}$  

b.  $\frac{4}{8}$   =  $\frac{8}{16}$  

c.  $\frac{5}{6}$   =  $\frac{15}{18}$  

f.  $\frac{5}{8}$   =  $\frac{10}{16}$  

e.  $\frac{7}{8}$   =  $\frac{14}{16}$  

f.  $\frac{4}{5}$   =  $\frac{12}{15}$  

2. Find the equivalent fractions. One has been done for you.

a.  $\frac{1}{2} \times \frac{2}{2} = \frac{1 \times 1}{2 \times 2} = \frac{1}{4}$

b.  $\frac{1}{2} \times \frac{4}{4} = \frac{1 \times 4}{2 \times 4} = \frac{4}{8}$

c.  $\frac{3}{4} \times \frac{3}{3} = \frac{3 \times 3}{4 \times 3} = \frac{9}{12}$

d.  $\frac{1}{3} \times \frac{3}{3} = \frac{1 \times 3}{3 \times 3} = \frac{3}{9}$

e.  $\frac{2}{5} \times \frac{2}{2} = \frac{2 \times 2}{5 \times 2} = \frac{4}{10}$

f.  $\frac{4}{6} \times \frac{2}{2} = \frac{4 \times 2}{6 \times 2} = \frac{8}{12}$

3. Circle the like and cross out the unlike fractions in each of the following.

a.  $\frac{3}{7}, \frac{1}{9}, \frac{2}{3}, \frac{8}{9}, \frac{3}{9}, \frac{2}{9}$       b.  $\frac{2}{3}, \frac{2}{5}, \frac{1}{5}, \frac{6}{7}, \frac{3}{5}, \frac{1}{2}$

4. Put a tick mark '✓' for unit fraction in the box.

b. ☒

c. ☒

e. ☒

f. ☒

h. ☒

j. ☒

5. Write the next two equivalent fractions for each of the following.

a.  $\frac{2}{3} = \frac{2 \times 2}{3 \times 2} = \frac{4}{6}, \frac{2 \times 3}{3 \times 3} = \frac{6}{9}$

b.  $\frac{1}{4} = \frac{1 \times 2}{4 \times 2} = \frac{2}{8}, \frac{1 \times 3}{4 \times 3} = \frac{3}{12}$

c.  $\frac{1}{5} = \frac{1 \times 2}{5 \times 2} = \frac{2}{10}, \frac{1 \times 3}{5 \times 3} = \frac{3}{15}$

d.  $\frac{3}{7} = \frac{3 \times 2}{7 \times 2} = \frac{6}{14}, \frac{3 \times 3}{7 \times 3} = \frac{9}{21}$

e.  $\frac{2}{5} = \frac{2 \times 2}{5 \times 2} = \frac{4}{10}, \frac{2 \times 3}{5 \times 3} = \frac{6}{15}$

f.  $\frac{3}{5} = \frac{3 \times 2}{5 \times 2} = \frac{6}{10}, \frac{3 \times 3}{5 \times 3} = \frac{9}{15}$

g.  $\frac{1}{2} = \frac{1 \times 2}{2 \times 2} = \frac{2}{4}, \frac{1 \times 3}{2 \times 3} = \frac{3}{6}$

h.  $\frac{7}{9} = \frac{7 \times 2}{9 \times 2} = \frac{14}{18}, \frac{7 \times 3}{9 \times 3} = \frac{21}{27}$

i.  $\frac{2}{4} = \frac{2 \times 2}{4 \times 2} = \frac{4}{8}, \frac{2 \times 3}{4 \times 3} = \frac{6}{12}$

6. Use the correct word to fill in the blanks.

a.  $\frac{1}{5}, \frac{1}{2}$  and  $\frac{1}{7}$  are all unit fractions.

b.  $\frac{3}{8}, \frac{7}{8}$  and  $\frac{11}{8}$  are all like fractions.

c.  $\frac{1}{5}, \frac{2}{10}, \frac{3}{15}$  and  $\frac{4}{20}$  are all unlike fractions.

### Exercise 8 D

1. Shade the pictures to show the given fractions and fill <, > or =.



$\frac{2}{4}$

<



$\frac{3}{4}$

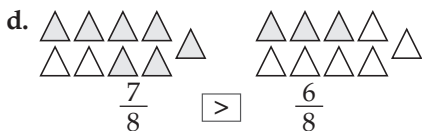
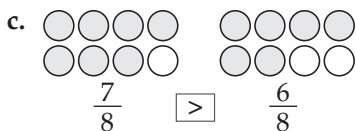


$\frac{4}{6}$

<



$\frac{5}{6}$



2. Compare the fractions and put  $>$ ,  $<$  or  $=$  in each box.

- a.  $\frac{1}{3}$   $<$   $\frac{2}{3}$     b.  $\frac{11}{12}$   $>$   $\frac{9}{12}$     c.  $\frac{4}{5}$   $>$   $\frac{3}{5}$     d.  $\frac{5}{14}$   $<$   $\frac{11}{14}$   
 e.  $\frac{16}{18}$   $>$   $\frac{3}{18}$     f.  $\frac{15}{20}$   $=$   $\frac{15}{20}$     g.  $\frac{3}{7}$   $=$   $\frac{3}{7}$     h.  $\frac{16}{17}$   $>$   $\frac{10}{17}$

### Exercise 8 E

1. Arrange the given fractions in ascending order.

- a. Given fractions have same denominators so, we compare numerators.

$$1 < 2 < 3 < 4$$

$$\text{Ascending order} = \frac{1}{6} < \frac{2}{6} < \frac{3}{6} < \frac{4}{6}$$

- b. Here, numerators are same so, we compare denominators.

$$9 < 8 < 6 < 5$$

$$\text{Ascending order} = \frac{3}{9} < \frac{3}{8} < \frac{3}{6} < \frac{3}{5}$$

- c. Here, numerators are same so, we compare denominators.

$$3 < 4 < 5 < 6$$

$$\text{Ascending order} = \frac{2}{6} < \frac{2}{5} < \frac{2}{4} < \frac{2}{3}$$

- d. Here, denominators are same so, we compare numerators.

$$4 > 3 > 2 > 1$$

$$\text{Ascending order} = \frac{1}{7} > \frac{2}{7} > \frac{3}{7} > \frac{4}{7}$$

2. Arrange the given fractions in descending order.

- a. Here, denominators are same so, we compare numerators.

$$7 < 8 < 9 < 10$$

$$\text{Descending order} = \frac{10}{12} > \frac{9}{12} > \frac{8}{12} > \frac{7}{12}$$

- b. Here, numerators are same so, we compare denominators.

$$19 > 14 > 12 > 10$$

$$\text{Descending order} = \frac{11}{10} > \frac{11}{12} > \frac{11}{14} > \frac{11}{19}$$

- c. Here, denominators are same so, we compare numerators.

$$5 > 4 > 3 > 1$$

$$\text{Descending order} = \frac{5}{6} > \frac{4}{6} > \frac{3}{6} > \frac{1}{6}$$

- d. Here, numerators are same so, we compare denominators.

$$11 > 9 > 6 > 5$$

$$\text{Descending order} = \frac{4}{5} > \frac{4}{6} > \frac{4}{9} > \frac{4}{11}$$

## Word Problems

### 1. Solve the following word problems.

- a. Total number of flowers = 5 (red) + 10 (white) + 5 (blue)

$$\text{Fraction of red flower} = \frac{5}{20}$$

- b. Total numbers of furniture = 5 (table) + 3 (chair) + 6 (sofa)

$$\text{Fraction of sofa} = \frac{6}{14}$$

- c. Total number of shirts bought = 8

$$\text{Number of coloured shirts} = 5$$

$$\text{Number of white shirts} = 8 - 5 = 3$$

$$\text{Fraction of white shirts} = \frac{3}{8}$$

- d. Total number of story book mohit have = 15

$$\text{Number of book that mohit read} = 10$$

$$\text{Number of book that not read by mohit} = 15 - 10 = 5$$

$$\text{Fraction of not read books by mohit} = \frac{5}{15}$$

- e. She gets =  $\frac{1}{4}$

## HOTS

### 1. Answer the following questions in the form of fractions.

a.  $\frac{1}{3}$                       b.  $\frac{2}{3}$

i.  $\frac{4}{7}$                       ii.  $\frac{3}{7}$

### 2. Here is a set of flowers. How many flowers are there in all?      20/10

a.  $\frac{6}{10}$                       b.  $\frac{4}{10}$                       c.  $\frac{4}{10}$                       d.  $\frac{6}{10}$

## Mental Maths

### 1. Fill in the blanks.

- a. How many halves make a whole (1)? two
- b. How many quarters make a whole (1)? 4
- c. The number of sevenths that make a whole is  $\frac{1}{7}$ .
- d. If 1 is divided into 5 equal parts, each part is called one fifth of the whole.
- e. The fraction '5 by 14' is written as  $\frac{5}{14}$ .
- f. We can read the fraction  $\frac{2}{11}$  as 2 by 11.

# Basic Geometrical Concepts

## Exercise 9 A

1. Match the plane or solid shape with its name.

a. circle     e. cone

b. square  f. cylinder

c. diamond     g. cuboid

d. triangle  h. cube

## Exercise 9 B

1. Write the number of corners vertices and sides of the following shapes:

a.  corners  sides

b.  corners  sides

c.  corners  sides

d.  corners  sides

2. State 'True' or 'False'

- A square and rectangle both have 4 sides but a square has 6 corners whereas a rectangle has 8 corners. False
- Each face of a dice is a square but face of a matchbox is a rectangle. True
- If we place dice on paper and trace its bottom face along its edge, we get a square. True
- A circle is round in shape. True
- If we place a pencil box on paper and trace its bottom face along its edge, we get a triangle. False

3. Fill in the blanks.

- a. A rectangle has four sides.
- b. The opposite sides of a rectangle are equal.
- c. A square has four vertices.
- d. All sides of a square are equal.
- e. A triangle has three sides.
- f. All the edges of a triangle may or may not equal.
- g. A circle has zero vertices.
- h. A circle is round in shape.

**Exercise 9 C**

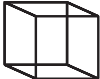
1. Give one word for each of the following.

- a. A solid which has one face. sphere
- b. A solid which has three faces. cylinder
- c. A solid which has one vertex. cone
- d. A solid which has two edges. cylinder
- e. A solid which has six square faces. cube

2. Fill in the blanks.

- a. A cube has six faces.
- b. All the faces of a cube are square in shape.
- c. A cuboid has 12 sides.
- d. A cone has two faces.
- e. A cylinder has two edges.
- f. A sphere has no flat surfaces.

3. Write the number of corners, edges and faces.

- a.  corners 0 edges 2 faces 3
- b.  corners 1 edges 1 faces 2
- c.  corners 0 edges 0 faces 1
- d.  corners 8 edges 12 faces 6

4. Give examples of objects which have the following shapes:

- Dice, Ice-Cube, Box
- Ice-cream cone, Christmas tree, Party hat
- Book, Refrigerator, Brick

### Exercise 9 D

1. Identify and name the following figures.

a.  line

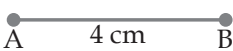
b.  line segment

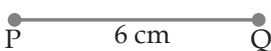
c.  ray

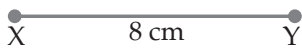
d.  point

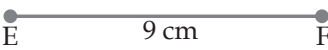
### Exercise 9 E

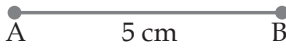
1. Measure the given line segments with the help of a ruler.

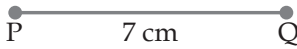
a.   $\overline{AB} = 4 \text{ cm}$

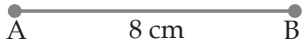
b.   $\overline{PQ} = 6 \text{ cm}$

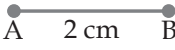
c.   $\overline{XY} = 8 \text{ cm}$

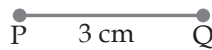
d.   $\overline{EF} = 9 \text{ cm}$

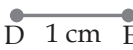
e.   $\overline{AB} = 5 \text{ cm}$

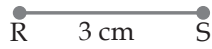
f.   $\overline{PQ} = 7 \text{ cm}$

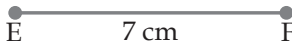
g.   $\overline{AB} = 8 \text{ cm}$

h.   $\overline{AB} = 2 \text{ cm}$

i.   $\overline{PQ} = 3 \text{ cm}$

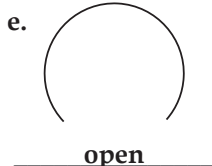
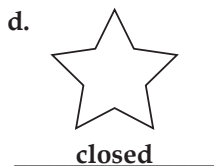
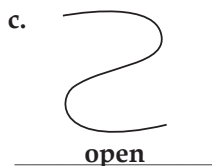
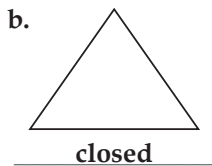
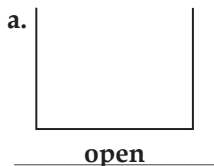
j.   $\overline{DE} = 1 \text{ cm}$

k.   $\overline{RS} = 3 \text{ cm}$

l.   $\overline{EF} = 7 \text{ cm}$

## Exercise 9 F

1. Write 'open or closed' for each of the following figures.



## HOTS

1. A **dice** is a cube used for ludo and snakes and ladders.
2. A **chalk** is a cylinder used to write on the blackboard.
3. A **book** is a cuboid which tell you interesting stories.
4. **Circle the correct shape.**

- |                 |                         |
|-----------------|-------------------------|
| a. Tube light   | <u>cylinder</u> /cone   |
| b. Dice         | cuboid/ <u>cube</u>     |
| c. Globe        | <u>sphere</u> /circle   |
| d. Birthday cap | cylinder/ <u>cone</u>   |
| e. Book         | <u>cuboid</u> /cylinder |

# Measurement of Length

## Exercise 10 A

**1. Fill in the blanks.**

- a. The standard unit of length is metre .
- b. Hand-span is the non-standard unit of measuring length.
- c. Metre is the standard unit of measuring length.
- d. Length of a table is measured in metre or centimetre.
- e.  $1\text{ m} = 100\text{ cm}$
- f.  $1\text{ km} = 1000\text{ m}$

**2. Fill in the blanks using cm, m or km.**

- a. Height of a building. metre
- b. Distance from Delhi to Lucknow. kilometre
- c. Length of a mouse's tail. cm
- d. Length of a saree. metre
- e. Length of two villages. kilometre
- f. Length of a comb. centimetre
- g. Length of a dog's tail. centimetre
- h. Length of a brush. centimetre
- i. Length of a spoon. centimetre

## Exercise 10 B

**1. Convert the following into 'cm'.**

- a.  $6 \times 100\text{ cm} = 600\text{ cm}$
- b.  $20 \times 100\text{ cm} = 2000\text{ cm}$
- c.  $44 \times 100\text{ cm} = 4400\text{ cm}$
- d.  $17 \times 100\text{ cm} + 24\text{ cm} = 1700\text{ cm} + 24\text{ cm} = 1724\text{ cm}$
- e.  $62 \times 100\text{ cm} + 28\text{ cm} = 6200\text{ cm} + 28\text{ cm} = 6228\text{ cm}$
- f.  $15 \times 100\text{ cm} + 32\text{ cm} = 1500\text{ cm} + 32\text{ cm} = 1532\text{ cm}$
- g.  $24 \times 100\text{ cm} = 2400\text{ cm}$
- h.  $46 \times 100\text{ cm} + 15\text{ cm} = 4600\text{ cm} + 15\text{ cm} = 4615\text{ cm}$
- i.  $45 \times 100\text{ cm} = 4500\text{ cm}$

**2. Convert the following into 'm' and 'cm'.**

a.  $565 \text{ cm} = (565 \div 100) \text{ m}$   
Quotient = 5 Remainder = 65  
Therefore,  $565 \text{ cm} = 5 \text{ m } 65 \text{ cm}$

b.  $677 \text{ cm} = (677 \div 100) \text{ m}$   
Quotient = 6 Remainder = 77  
Therefore,  $675 \text{ cm} = 6 \text{ m } 77 \text{ cm}$

c.  $465 \text{ cm} = (465 \div 100) \text{ m}$   
Quotient = 4 Remainder = 65  
Therefore,  $465 \text{ cm} = 4 \text{ m } 65 \text{ cm}$

d.  $213 \text{ cm} = (213 \div 100) \text{ m}$   
Quotient = 2 Remainder = 13  
Therefore,  $213 \text{ cm} = 2 \text{ m } 13 \text{ cm}$

e.  $855 \text{ cm} = (855 \div 100) \text{ m}$   
Quotient = 8 Remainder = 55  
Therefore,  $855 \text{ cm} = 8 \text{ m } 55 \text{ cm}$

f.  $676 \text{ cm} = (676 \div 100) \text{ m}$   
Quotient = 6 Remainder = 76  
Therefore,  $676 \text{ cm} = 6 \text{ m } 76 \text{ cm}$

g.  $305 \text{ cm} = (305 \div 100) \text{ m}$   
Quotient = 3 Remainder = 5  
Therefore,  $305 \text{ cm} = 3 \text{ m } 5 \text{ cm}$

h.  $742 \text{ cm} = (742 \div 100) \text{ m}$   
Quotient = 7 Remainder = 42  
Therefore,  $742 \text{ cm} = 7 \text{ m } 42 \text{ cm}$

i.  $425 \text{ cm} = (425 \div 100) \text{ m}$   
Quotient = 4 Remainder = 25  
Therefore,  $425 \text{ cm} = 4 \text{ m } 25 \text{ cm}$

**3. Convert the following into 'm'.**

a.  $16 \times 1000 \text{ m} + 320 \text{ m} = 16000 \text{ m} + 320 \text{ m} = 16320 \text{ m}$

b.  $71 \times 1000 \text{ m} + 670 \text{ m} = 71000 \text{ m} + 670 \text{ m} = 71670 \text{ m}$

c.  $56 \times 1000 \text{ m} + 265 \text{ m} = 56000 \text{ m} + 265 \text{ m} = 56265 \text{ m}$

d.  $45 \times 1000 \text{ m} = 45000 \text{ m}$

e.  $50 \times 1000 \text{ m} + 400 \text{ m} = 50000 \text{ m} + 400 \text{ m} = 50400 \text{ m}$

- f.  $75 \times 1000 \text{ m} + 600 \text{ m} = 75000 \text{ m} + 600 \text{ m} = 75600 \text{ m}$
- g.  $25 \times 1000 \text{ m} + 70 \text{ m} = 25000 \text{ m} + 70 \text{ m} = 25070 \text{ m}$
- h.  $12 \times 1000 \text{ m} + 120 \text{ m} = 12000 \text{ m} + 120 \text{ m} = 12120 \text{ m}$
- i.  $39 \times 1000 \text{ m} + 28 \text{ m} = 39000 \text{ m} + 28 \text{ m} = 39028 \text{ m}$

**4. Convert the following into 'km'.**

- a.  $3000 \text{ m} = (3000 \div 1000) \text{ km}$   
 Quotient = 3 Remainder = 0  
 Therefore,  $3000 \text{ m} = 3 \text{ km}$
- b.  $4000 \text{ m} = (4000 \div 1000) \text{ km}$   
 Quotient = 4 Remainder = 0  
 Therefore,  $4000 \text{ m} = 4 \text{ km}$
- c.  $6000 \text{ m} = (6000 \div 1000) \text{ km}$   
 Quotient = 6 Remainder = 0  
 Therefore,  $6000 \text{ m} = 6 \text{ km}$
- d.  $5000 \text{ m} = (5000 \div 1000) \text{ km}$   
 Quotient = 5 Remainder = 0  
 Therefore,  $5000 \text{ m} = 5 \text{ km}$
- e.  $7000 \text{ m} = (7000 \div 1000) \text{ km}$   
 Quotient = 7 Remainder = 0  
 Therefore,  $7000 \text{ m} = 7 \text{ km}$
- f.  $8000 \text{ m} = (8000 \div 1000) \text{ km}$   
 Quotient = 8 Remainder = 0  
 Therefore,  $8000 \text{ m} = 8 \text{ km}$
- g.  $9000 \text{ m} = (9000 \div 1000) \text{ km}$   
 Quotient = 9 Remainder = 0  
 Therefore,  $9000 \text{ m} = 9 \text{ km}$
- h.  $2000 \text{ m} = (2000 \div 1000) \text{ km}$   
 Quotient = 2 Remainder = 0  
 Therefore,  $2000 \text{ m} = 2 \text{ km}$
- i.  $6000 \text{ m} = (6000 \div 1000) \text{ m}$   
 Quotient = 6 Remainder = 0  
 Therefore,  $6000 \text{ m} = 6 \text{ km}$

**5. Convert the following into 'km' and 'm'.**

- a.  $2444 \text{ m} = (2444 \div 1000) \text{ km}$   
Quotient = 2 Remainder = 444  
Therefore,  $2444 \text{ m} = 2 \text{ km } 444 \text{ m}$
- b.  $5678 \text{ m} = (5678 \div 1000) \text{ km}$   
Quotient = 5 Remainder = 678  
Therefore,  $5678 \text{ m} = 5 \text{ km } 678 \text{ m}$
- c.  $1234 \text{ m} = (1234 \div 1000) \text{ km}$   
Quotient = 1 Remainder = 234  
Therefore,  $1234 \text{ m} = 1 \text{ km } 234 \text{ m}$
- d.  $8912 \text{ m} = (8912 \div 1000) \text{ km}$   
Quotient = 8 Remainder = 912  
Therefore,  $8912 \text{ m} = 8 \text{ km } 912 \text{ m}$
- e.  $2378 \text{ m} = (2378 \div 1000) \text{ km}$   
Quotient = 2 Remainder = 378  
Therefore,  $2378 \text{ m} = 2 \text{ km } 378 \text{ m}$
- f.  $9209 \text{ m} = (9209 \div 1000) \text{ km}$   
Quotient = 9 Remainder = 209  
Therefore,  $9209 \text{ m} = 9 \text{ km } 209 \text{ m}$
- g.  $4586 \text{ m} = (4586 \div 1000) \text{ km}$   
Quotient = 4 Remainder = 586  
Therefore,  $4586 \text{ m} = 4 \text{ km } 586 \text{ m}$
- h.  $4756 \text{ m} = (4756 \div 1000) \text{ km}$   
Quotient = 4 Remainder = 756  
Therefore,  $4756 \text{ m} = 4 \text{ km } 756 \text{ m}$
- i.  $2589 \text{ m} = (2589 \div 1000) \text{ km}$   
Quotient = 2 Remainder = 589  
Therefore,  $2589 \text{ m} = 2 \text{ km } 589 \text{ m}$

**6. Fill in the blanks.**

- a.  $6 \times 1000 \text{ m} + 300 \text{ m} = 6000 \text{ m} + 300 \text{ m} = 6300 \text{ m}$
- b.  $7200 \text{ m} = (7200 \div 1000) \text{ km} = 7 \text{ km } 200 \text{ m}$
- c.  $965 \text{ cm} = (965 \div 100) \text{ m} = 9 \text{ m } 65 \text{ cm}$
- d.  $8 \times 100 + 52 \text{ cm} = 800 \text{ cm} + 52 \text{ cm} = 852 \text{ cm}$
- e.  $15 \times 100 \text{ cm} = 1500 \text{ cm}$
- f.  $9000 \text{ m} = (9000 \div 1000) \text{ km} = 9 \text{ km}$

- g.  $478 \text{ cm} = (478 \div 100) \text{ m} = 4 \text{ m } 78 \text{ cm}$   
 h.  $3420 \text{ m} = (3420 \div 1000) \text{ m} = 3 \text{ km } 420 \text{ m}$   
 i.  $7 \text{ km} = 7 \times 1000 \text{ m} = 7000 \text{ m}$   
 j.  $5 \times 1000 \text{ m} + 105 \text{ m} = 5000 \text{ m} + 105 \text{ m} = 5105 \text{ m}$   
 k.  $9 \times 1000 \text{ m} + 400 \text{ m} = 9000 \text{ m} + 400 \text{ m} = 9400 \text{ m}$   
 l.  $3 \times 1000 \text{ m} = 3000 \text{ m}$   
 m.  $825 \text{ cm} = (825 \div 100) \text{ m} = 8 \text{ m } 25 \text{ cm}$   
 n.  $901 \text{ cm} = (901 \div 100) \text{ m} = 9 \text{ m } 1 \text{ cm}$

### Exercise 10 C

#### 1. Add the following.

a.

|   | m | cm |
|---|---|----|
|   | 1 | 1  |
|   | 5 | 2  |
| + | 6 | 3  |
|   | 3 | 6  |

b.

|   | m | cm |
|---|---|----|
|   | 1 | 1  |
|   | 4 | 5  |
| + | 2 | 7  |
|   | 7 | 2  |

c.

|   | m | cm |
|---|---|----|
|   | 1 | 1  |
|   | 2 | 7  |
| + | 1 | 9  |
|   | 4 | 7  |

d.

|   | km | m |
|---|----|---|
|   | 1  | 1 |
|   | 5  | 1 |
| + | 6  | 0 |
|   | 3  | 1 |

e.

|   | km | m |
|---|----|---|
|   |    | 1 |
|   | 4  | 8 |
| + | 2  | 1 |
|   | 6  | 9 |

f.

|   | km | m |
|---|----|---|
|   |    | 1 |
|   | 5  | 1 |
| + | 2  | 2 |
|   | 7  | 3 |

g.

|   | km | m |
|---|----|---|
|   | 1  | 1 |
|   | 2  | 0 |
| + | 1  | 1 |
|   | 3  | 2 |

h.

|   | km | m |
|---|----|---|
|   | 1  |   |
|   | 2  | 4 |
| + | 3  | 2 |
|   | 5  | 7 |

i.

|   | km | m |
|---|----|---|
|   | 1  | 1 |
|   | 6  | 4 |
| + | 2  | 3 |
|   | 8  | 8 |

j.

|   | km | m |
|---|----|---|
|   | 1  | 1 |
|   | 8  | 4 |
| + |    | 7 |
|   | 9  | 1 |

k.

|   | km | m |
|---|----|---|
|   | 1  | 1 |
|   | 2  | 8 |
| + | 3  | 1 |
|   | 6  | 0 |

l.

|   | km | m |
|---|----|---|
|   | 1  | 1 |
|   | 2  | 9 |
| + | 4  | 2 |
|   | 7  | 2 |

m.

|   | km | m |
|---|----|---|
|   | 1  | 1 |
|   | 4  | 2 |
| + | 3  | 2 |
|   | 7  | 5 |

n.

|   | km | m |
|---|----|---|
|   |    | 1 |
|   | 5  | 5 |
| + | 1  | 1 |
|   | 6  | 6 |

o.

|   | km | m |
|---|----|---|
|   | 1  | 1 |
|   | 7  | 4 |
| + |    | 2 |
|   | 7  | 7 |

## 2. Subtract the following.

a.

|   | m                                                   | cm                           |
|---|-----------------------------------------------------|------------------------------|
|   | 13                                                  | 12                           |
|   | 6                                                   | <del>8</del> <del>2</del> 11 |
|   | <del>7</del> <del>4</del> <del>3</del> <del>1</del> |                              |
| - | 2                                                   | 7 6 4                        |
|   | 4                                                   | 6 6 7                        |

b.

|   | m | cm                          |
|---|---|-----------------------------|
|   | 7 | 12                          |
|   | 9 | <del>8</del> <del>2</del> 6 |
| - | 4 | 4 4 4                       |
|   | 5 | 3 8 2                       |

c.

|   | m                                                   | cm                           |
|---|-----------------------------------------------------|------------------------------|
|   | 11                                                  |                              |
|   | 6                                                   | <del>1</del> <del>9</del> 14 |
|   | <del>7</del> <del>2</del> <del>8</del> <del>4</del> |                              |
| - | 1                                                   | 5 2 6                        |
|   | 5                                                   | 6 7 8                        |

d.

|   | km                                                  | m               |
|---|-----------------------------------------------------|-----------------|
|   |                                                     | 10              |
|   | 4 9                                                 | <del>8</del> 14 |
|   | <del>5</del> <del>8</del> <del>1</del> <del>4</del> | 8               |
| - | 2                                                   | 7 2 5 7         |
|   | 2                                                   | 2 8 9 1         |

e.

|   | km                                                               | m                 |
|---|------------------------------------------------------------------|-------------------|
|   |                                                                  | 14                |
|   | 7 14                                                             | 8 <del>4</del> 10 |
|   | <del>8</del> <del>4</del> <del>9</del> <del>5</del> <del>8</del> |                   |
| - | 4                                                                | 6 3 8 4           |
|   | 3                                                                | 8 5 6 6           |

f.

|   | km                                                               | m                                         |
|---|------------------------------------------------------------------|-------------------------------------------|
|   |                                                                  | 11 10 13                                  |
|   | 8                                                                | <del>1</del> <del>8</del> <del>3</del> 10 |
|   | <del>9</del> <del>2</del> <del>1</del> <del>4</del> <del>8</del> |                                           |
| - | 2                                                                | 4 3 6 4                                   |
|   | 6                                                                | 7 7 7 6                                   |

g.

|   | km  | m                           |
|---|-----|-----------------------------|
|   |     | 8 15                        |
|   | 5 9 | 2 <del>8</del> <del>5</del> |
| - | 5   | 2 2 7 6                     |
|   | 0   | 7 0 1 9                     |

h.

|   | km  | m                                      |
|---|-----|----------------------------------------|
|   |     | 12                                     |
|   |     | 3 <del>2</del> 14                      |
|   | 4 6 | <del>4</del> <del>3</del> <del>4</del> |
| - | 1   | 4 3 7 6                                |
|   | 3   | 2 0 5 8                                |

i.

|   | km                                                    | m                            |
|---|-------------------------------------------------------|------------------------------|
|   |                                                       | 17 15                        |
|   | 2                                                     | <del>7</del> <del>3</del> 16 |
|   | <del>3</del> <del>8</del> <del>6</del> <del>6</del> 3 |                              |
| - | 1                                                     | 8 8 8 3                      |
|   | 1                                                     | 9 7 8 0                      |

j.

|   | km  | m                           |
|---|-----|-----------------------------|
|   |     | 6 11                        |
|   | 9 5 | 7 <del>7</del> <del>1</del> |
| - | 9   | 3 2 5 4                     |
|   | 0   | 2 5 1 7                     |

k.

|   | km                                                    | m       |
|---|-------------------------------------------------------|---------|
|   | 3 10                                                  | 5 16    |
|   | <del>4</del> <del>8</del> <del>6</del> <del>6</del> 9 |         |
| - | 3                                                     | 8 2 9 9 |
|   | 0                                                     | 3 3 7 0 |

l.

|   | km                                                               | m                 |
|---|------------------------------------------------------------------|-------------------|
|   |                                                                  | 10                |
|   | 7 9                                                              | 9 <del>8</del> 13 |
|   | <del>8</del> <del>8</del> <del>8</del> <del>1</del> <del>3</del> |                   |
| - | 1                                                                | 4 1 9 9           |
|   | 6                                                                | 5 8 1 4           |

## 3. Add the following.

a.

|   | km  | m       |
|---|-----|---------|
|   |     | 1 1 11  |
|   | 3 0 | 4 2 6   |
| + | 2   | 5 3 8 8 |
|   | 5   | 5 8 1 4 |

b.

|  | km | m |
|--|----|---|
|--|----|---|

#### 4. Subtract the following.

a.

| m            |              |              |              |
|--------------|--------------|--------------|--------------|
|              | 11           | 12           |              |
| 6            | <del>1</del> | <del>2</del> | 12           |
| <del>7</del> | <del>2</del> | <del>3</del> | <del>2</del> |
| -            | 2            | 9            | 8 8          |
|              | 4            | 2            | 4 4          |

b.

| km           | m            |                           |
|--------------|--------------|---------------------------|
|              | 13           | 11                        |
| 7            | <del>3</del> | <del>1</del> 12           |
| <del>8</del> | <del>4</del> | <del>2</del> <del>2</del> |
| -            | 2            | 5 2 9                     |
|              | 5            | 8 9 3                     |

c.

|   | km           | m            |                                        |
|---|--------------|--------------|----------------------------------------|
|   | 7            | 12           | 11                                     |
|   | 6            | <del>7</del> | <del>2</del> <del>1</del> 11           |
| 7 | <del>7</del> | <del>8</del> | <del>3</del> <del>2</del> <del>1</del> |
| - | 2            | 4            | 8 8 9 8                                |
|   | 5            | 2            | 9 4 2 3                                |

d.

| km | m            |                                                     |
|----|--------------|-----------------------------------------------------|
|    | 16           | 11                                                  |
| 7  | 9            | <del>16</del> <del>11</del> 15                      |
| 8  | <del>8</del> | <del>8</del> <del>7</del> <del>2</del> <del>3</del> |
| -  | 2            | 4 8 8 9 8                                           |
|    | 6            | 3 1 8 2 7                                           |

e.

| km           | m            |                                          |
|--------------|--------------|------------------------------------------|
|              | 11           | 10 17                                    |
| 6            | <del>1</del> | <del>0</del> <del>7</del> 12             |
| <del>7</del> | <del>2</del> | <del>1</del> <del>8</del> <del>2</del> 0 |
| -            | 2            | 4 5 9 6 0                                |
|              | 4            | 7 5 8 6 0                                |

### Word Problems

#### 1. Solve the following word problems.

- a. Lengths of triangular park sides

= 108 m, 189 m 76 cm, 235 m 38 cm

Total distance covered by the boy =

|   | m | cm |       |
|---|---|----|-------|
| 1 | 2 | 1  | 1     |
| 1 | 0 | 8  | 0 0   |
| 1 | 8 | 9  | 7 6   |
| + | 2 | 3  | 5 3 8 |
|   | 5 | 3  | 3 1 4 |

- b. Length of ribbon

= 56 cm

Length has cut from ribbon

= 37

Length of left ribbon

=

|   |              |              |
|---|--------------|--------------|
|   | 4            | 16           |
| - | <del>3</del> | <del>7</del> |
|   | 1            | 9            |

- c. Length of plastic pipe roll

=

Length has cut off plastic pipe roll

=

Length of left pipe on the roll

=

|   | m | cm           |              |
|---|---|--------------|--------------|
|   |   | 4            | 10           |
| 2 | 3 | <del>3</del> | <del>0</del> |
| - | 1 | 0            | 3 7          |
|   | 1 | 3            | 1 3          |

- d. Length of cloth piece

= 198 cm

Length in metre and centimetre

= (198 ÷ 100) m

= 1 m 98 cm.

- e. Distance between mona's home to her office =

Distance covered by bus

=

Distance covered by on foot

=

She covered 3 km 175 m by foot.

|   | m | cm           |      |
|---|---|--------------|------|
|   |   | 8            | 9 10 |
| 1 | 3 | <del>9</del> |      |

- f. Length of 3 pencils = 17 cm, 12 cm, 9 cm  
 Total length of pencil = 17 cm + 12 cm + 9 cm  
 = 38 cm
- g. Length of baby giraffe = 36 cm  
 Length of young giraffe = 100 cm  
 Baby giraffe shorter than the young giraffe = 100 cm - 36 cm  
 = 64 cm

## Mental Maths

1. Do yourself.
2. Distance between raj's home to his school = 3 km 250 m  
 Distance in metre =  $3 \times 1000 \text{ m} + 250 \text{ m}$   
 =  $3000 + 250$   
 = 3250 m
3. Complete the following:
  - a. 7 m 45 cm =  $7 \times 100 \text{ cm} + 45 \text{ cm}$   
 = 700 cm + 45 cm  
 = 745 cm
  - b. 6800 m =  $(6800 \div 1000) \text{ km}$   
 Quotient = 6 Remainder = 800  
 6800 m = 6 km 800 m
  - c. 835 cm =  $(835 \div 100) \text{ m}$   
 Quotient = 8 Remainder = 35  
 Therefore, 835 cm = 8 m 35 cm
  - d. 5 km 380 m =  $5 \times 1000 \text{ m} + 380 \text{ m}$   
 = 5000 m + 380 m  
 = 5380 m
4. Tick (✓) the correct option.
  - a. (i)
  - b. (ii)

## Measurement of Weight

Exercise 11 A

## 1. Fill in the blanks.

a.  $1000 \div 200$

We get 5 as quotient

Therefore, we need 5 weights of 200 g each.

b.  $200 \div 50$

We get 4 as quotient

Therefore, we need 4 weights of 50 g each.

c.  $1000 \div 100$

We get 10 as quotient

Therefore, we need 10 weights of 100 g each.

d. Kilogram

e. Kg

## 2. Which is heavier?

a. 600 g   $100 \text{ g} \times 4$

600 g   $>$  400 g

b. 300 g   $50 \text{ g} \times 5$

300 g   $>$  250 g

c.  $500 \text{ g} \times 2$    $2 \times 100 \text{ g}$

1000 g   $>$  200 g

Exercise 11 B

## 1. Convert the following into 'g'.

a.  $5 \times 1000 \text{ g} = 5000 \text{ g}$

b.  $6 \times 1000 \text{ g} = 6000 \text{ g}$

c.  $12 \times 1000 \text{ g} = 12000 \text{ g}$

d.  $8 \times 1000 \text{ g} + 200 \text{ g} = 8000 \text{ g} + 200 \text{ g} = 8200 \text{ g}$

e.  $4 \times 1000 \text{ g} + 80 \text{ g} = 4000 \text{ g} + 80 \text{ g} = 4080 \text{ g}$

f.  $7 \times 1000 \text{ g} + 18 \text{ g} = 7000 \text{ g} + 18 \text{ g} = 7018 \text{ g}$

g.  $2 \times 1000 \text{ g} + 15 \text{ g} = 2000 \text{ g} + 15 \text{ g} = 2015 \text{ g}$

h.  $5 \times 1000 \text{ g} + 50 \text{ g} = 5000 \text{ g} + 50 \text{ g} = 5050 \text{ g}$

i.  $7 \times 1000 \text{ g} + 70 \text{ g} = 7000 \text{ g} + 70 \text{ g} = 7070 \text{ g}$

j.  $6 \times 1000 \text{ g} + 9 \text{ g} = 6000 \text{ g} + 9 \text{ g} = 6009 \text{ g}$

k.  $9 \times 1000 \text{ g} + 70 \text{ g} = 9000 \text{ g} + 70 \text{ g} = 9070 \text{ g}$

- l.  $8 \times 1000 \text{ g} + 72 \text{ g} = 8000 \text{ g} + 72 \text{ g} = 8072 \text{ g}$   
 m.  $11 \times 1000 \text{ g} + 75 \text{ g} = 11000 \text{ g} + 75 \text{ g} = 11075 \text{ g}$   
 n.  $17 \times 1000 \text{ g} + 3 \text{ g} = 17000 \text{ g} + 3 \text{ g} = 17003 \text{ g}$   
 o.  $19 \times 1000 \text{ g} + 20 \text{ g} = 19000 \text{ g} + 20 \text{ g} = 19020 \text{ g}$   
 p.  $20 \times 1000 \text{ g} + 20 \text{ g} = 20000 \text{ g} + 20 \text{ g} = 20020 \text{ g}$

**2. Convert the following into kilograms.**

- |                                                                                                                             |                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| a. $1000 \text{ g} = 1 \text{ kg}$<br>$5000 \text{ g} = (5000 \div 1000) \text{ kg}$<br>$5000 \text{ g} = 5 \text{ kg}$     | k. $1000 \text{ g} = 1 \text{ kg}$<br>$15000 \text{ g} = (15000 \div 1000) \text{ kg}$<br>$15000 \text{ g} = 15 \text{ kg}$                                                        |
| b. $1000 \text{ g} = 1 \text{ kg}$<br>$6000 \text{ g} = (6000 \div 1000) \text{ kg}$<br>$6000 \text{ g} = 6 \text{ kg}$     | l. $1000 \text{ g} = 1 \text{ kg}$<br>$1300 \text{ g} = (1300 \div 1000) \text{ kg}$<br>Quotient = 1, Remainder = 300<br>Therefore, $1300 \text{ g} = 1 \text{ kg } 300 \text{ g}$ |
| c. $7000 \text{ g} = (7000 \div 1000) \text{ kg}$<br>$7000 \text{ g} = 7 \text{ kg}$                                        | m. $1000 \text{ g} = 1 \text{ kg}$<br>$1400 \text{ g} = (1400 \div 1000) \text{ kg}$<br>Quotient = 1, Remainder = 400<br>Therefore, $1400 \text{ g} = 1 \text{ kg } 400 \text{ g}$ |
| d. $1000 \text{ g} = 1 \text{ kg}$<br>$2000 \text{ g} = (2000 \div 1000) \text{ kg}$<br>$2000 \text{ g} = 2 \text{ kg}$     | n. $1000 \text{ g} = 1 \text{ kg}$<br>$1800 \text{ g} = (1800 \div 1000) \text{ kg}$<br>Quotient = 1, Remainder = 800<br>Therefore, $1800 \text{ g} = 1 \text{ kg } 800 \text{ g}$ |
| e. $1000 \text{ g} = 1 \text{ kg}$<br>$8000 \text{ g} = (8000 \div 1000) \text{ kg}$<br>$8000 \text{ g} = 8 \text{ kg}$     | o. $1000 \text{ g} = 1 \text{ kg}$<br>$1900 \text{ g} = (1900 \div 1000) \text{ kg}$<br>Quotient = 1, Remainder = 900<br>Therefore, $1900 \text{ g} = 1 \text{ kg } 900 \text{ g}$ |
| f. $1000 \text{ g} = 1 \text{ kg}$<br>$4000 \text{ g} = (4000 \div 1000) \text{ kg}$<br>$4000 \text{ g} = 4 \text{ kg}$     | p. $1000 \text{ g} = 1 \text{ kg}$<br>$1700 \text{ g} = (1700 \div 1000) \text{ kg}$<br>Quotient = 1, Remainder = 700<br>Therefore, $1700 \text{ g} = 1 \text{ kg } 700 \text{ g}$ |
| g. $1000 \text{ g} = 1 \text{ kg}$<br>$3000 \text{ g} = (3000 \div 1000) \text{ kg}$<br>$3000 \text{ g} = 3 \text{ kg}$     |                                                                                                                                                                                    |
| h. $1000 \text{ g} = 1 \text{ kg}$                                                                                          |                                                                                                                                                                                    |
| i. $1000 \text{ g} = 1 \text{ kg}$<br>$9000 \text{ g} = (9000 \div 1000) \text{ kg}$<br>$9000 \text{ g} = 9 \text{ kg}$     |                                                                                                                                                                                    |
| j. $1000 \text{ g} = 1 \text{ kg}$<br>$17000 \text{ g} = (17000 \div 1000) \text{ kg}$<br>$17000 \text{ g} = 17 \text{ kg}$ |                                                                                                                                                                                    |

**3. Convert the following into kilograms and grams.**

- a.  $1000 \text{ g} = 1 \text{ kg}$   
 $5500 \text{ g} = (5500 \div 1000) \text{ kg}$   
Quotient = 5, Remainder = 500  
Therefore,  $5500 \text{ g} = 5 \text{ kg } 500 \text{ g}$
- b.  $1000 \text{ g} = 1 \text{ kg}$   
 $4653 \text{ g} = (4653 \div 1000) \text{ kg}$   
Quotient = 4, Remainder = 653  
Therefore,  $4653 \text{ g} = 4 \text{ kg } 653 \text{ g}$
- c.  $1000 \text{ g} = 1 \text{ kg}$   
 $1085 \text{ g} = (1085 \div 1000) \text{ kg}$   
Quotient = 1, Remainder = 85  
Therefore,  $1085 \text{ g} = 1 \text{ kg } 85 \text{ g}$
- d.  $1000 \text{ g} = 1 \text{ kg}$   
 $1005 \text{ g} = (1005 \div 1000) \text{ kg}$   
Quotient = 1, Remainder = 5  
Therefore,  $1005 \text{ g} = 1 \text{ kg } 5 \text{ g}$
- e.  $1000 \text{ g} = 1 \text{ kg}$   
 $6540 \text{ g} = (6540 \div 1000) \text{ kg}$   
Quotient = 6, Remainder = 540  
Therefore,  $6540 \text{ g} = 6 \text{ kg } 540 \text{ g}$
- f.  $1000 \text{ g} = 1 \text{ kg}$   
 $4050 \text{ g} = (4050 \div 1000) \text{ kg}$   
Quotient = 4, Remainder = 50  
Therefore,  $4050 \text{ g} = 4 \text{ kg } 50 \text{ g}$
- g.  $1000 \text{ g} = 1 \text{ kg}$   
 $9600 \text{ g} = (9600 \div 1000) \text{ kg}$   
Quotient = 9, Remainder = 600  
Therefore,  $9600 \text{ g} = 9 \text{ kg } 600 \text{ g}$
- h.  $1000 \text{ g} = 1 \text{ kg}$   
 $2300 \text{ g} = (2300 \div 1000) \text{ kg}$   
Quotient = 2, Remainder = 300  
Therefore,  $2300 \text{ g} = 2 \text{ kg } 300 \text{ g}$

- i.  $1000 \text{ g} = 1 \text{ kg}$   
 $8560 \text{ g} = (8560 \div 1000) \text{ kg}$   
Quotient = 8, Remainder = 560  
Therefore,  $8560 \text{ g} = 8 \text{ kg } 560 \text{ g}$
- j.  $1000 \text{ g} = 1 \text{ kg}$   
 $7546 \text{ g} = (7546 \div 1000) \text{ kg}$   
Quotient = 7, Remainder = 546  
Therefore,  $7546 \text{ g} = 7 \text{ kg } 546 \text{ g}$
- k.  $1000 \text{ g} = 1 \text{ kg}$   
 $9670 \text{ g} = (9670 \div 1000) \text{ kg}$   
Quotient = 9, Remainder = 670  
Therefore,  $9670 \text{ g} = 9 \text{ kg } 670 \text{ g}$
- l.  $1000 \text{ g} = 1 \text{ kg}$   
 $8460 \text{ g} = (8460 \div 1000) \text{ kg}$   
Quotient = 8, Remainder = 460  
Therefore,  $8460 \text{ g} = 8 \text{ kg } 460 \text{ g}$
- m.  $1000 \text{ g} = 1 \text{ kg}$   
 $9756 \text{ g} = (9756 \div 1000) \text{ kg}$   
Quotient = 9, Remainder = 756  
Therefore,  $9756 \text{ g} = 9 \text{ kg } 756 \text{ g}$
- n.  $1000 \text{ g} = 1 \text{ kg}$   
 $8964 \text{ g} = (8964 \div 1000) \text{ kg}$   
Quotient = 8, Remainder = 964  
Therefore,  $8964 \text{ g} = 8 \text{ kg } 964 \text{ g}$
- o.  $1000 \text{ g} = 1 \text{ kg}$   
 $2864 \text{ g} = (2864 \div 1000) \text{ kg}$   
Quotient = 2, Remainder = 864  
Therefore,  $2864 \text{ g} = 2 \text{ kg } 864 \text{ g}$
- p.  $1000 \text{ g} = 1 \text{ kg}$   
 $7085 \text{ g} = (7085 \div 1000) \text{ kg}$   
Quotient = 7, Remainder = 85  
Therefore,  $7085 \text{ g} = 7 \text{ kg } 85 \text{ g}$

## Exercise 11 C

1. Add the following.

a.

| kg          | g |
|-------------|---|
| 6 3 8 4 0   |   |
| + 1 6 1 5 1 |   |
| 7 9 9 9 1   |   |

b.

| kg          | g |
|-------------|---|
| 1 2 3 4 5   |   |
| + 5 4 3 2 1 |   |
| 6 6 6 6 6   |   |

c.

| kg          | g |
|-------------|---|
| 1 1 1       |   |
| 5 6 1 3 6   |   |
| + 1 7 2 6 5 |   |
| 7 3 4 0 1   |   |

d.

| kg          | g |
|-------------|---|
| 1 1         |   |
| 7 8 5 6 0   |   |
| + 1 2 2 5 6 |   |
| 9 0 8 1 6   |   |

e.

| kg          | g |
|-------------|---|
|             | 1 |
| 3 5 1 7 6   |   |
| + 2 1 2 0 5 |   |
| 5 6 3 8 1   |   |

f.

| kg          | g |
|-------------|---|
| 5 5 5 5 0   |   |
| + 2 2 2 2 7 |   |
| 7 7 7 7 7   |   |

g.

| kg          | g   |
|-------------|-----|
|             | 1 1 |
| 6 5 2 8 4   |     |
| + 3 2 4 6 8 |     |
| 9 7 7 5 2   |     |

h.

| kg          | g |
|-------------|---|
|             | 1 |
| 7 4 6 2 8   |   |
| + 1 1 3 2 4 |   |
| 8 5 9 5 2   |   |

i.

| kg          | g |
|-------------|---|
|             | 1 |
| 4 2 6 1 5   |   |
| + 3 2 1 6 5 |   |
| 7 4 7 2 0   |   |

2. Subtract the following.

a.

| kg                                                    | g    |
|-------------------------------------------------------|------|
| 6 13                                                  | 1 13 |
| <del>7</del> <del>3</del> 4 <del>2</del> <del>3</del> |      |
| - 1 8 3 1 5                                           |      |
| 5 5 1 0 8                                             |      |

b.

| kg                              | g |
|---------------------------------|---|
| 5 12                            |   |
| <del>6</del> <del>2</del> 3 4 5 |   |
| - 5 4 3 2 1                     |   |
| 0 8 0 2 4                       |   |

c.

| kg                                                    | g     |
|-------------------------------------------------------|-------|
|                                                       | 15 10 |
| 4 <del>5</del> <del>0</del> 13                        |       |
| <del>5</del> <del>6</del> <del>1</del> <del>3</del> 6 |       |
| - 1 7 2 6 5                                           |       |
| 3 8 8 7 1                                             |       |

d.

| kg                                                    | g |
|-------------------------------------------------------|---|
| 4 9 9 9 10                                            |   |
| <del>5</del> <del>0</del> <del>0</del> 0 <del>0</del> |   |
| - 1 3 2 2 3                                           |   |
| 3 6 7 7 8                                             |   |

e.

| kg                                                               | g |
|------------------------------------------------------------------|---|
| 8 9 9 9 10                                                       |   |
| <del>9</del> <del>0</del> <del>0</del> <del>0</del> <del>0</del> |   |
| - 1 2 3 4 5                                                      |   |
| 7 7 6 5 5                                                        |   |

f.

| kg                                                    | g         |
|-------------------------------------------------------|-----------|
|                                                       | 10 4 9 10 |
| 5 <del>0</del> <del>5</del> <del>0</del> <del>0</del> |           |
| - 2 5 2 7 5                                           |           |
| 3 5 2 2 5                                             |           |

g.

| kg                                         | g                   |
|--------------------------------------------|---------------------|
|                                            | 15                  |
|                                            | 4 9 <del>5</del> 17 |
| 7 <del>5</del> <del>0</del> 6 <del>7</del> |                     |
| - 2 4 5 8 9                                |                     |
| 5 0 4 7 8                                  |                     |

h.

| kg                              | g    |
|---------------------------------|------|
|                                 | 6 15 |
| 3 8 9 <del>7</del> <del>5</del> |      |
| - 1 2 9 4 9                     |      |
| 2 6 0 2 6                       |      |

i.

| kg                                         | g                 |
|--------------------------------------------|-------------------|
|                                            | 15                |
|                                            | 4 <del>5</del> 12 |
| 8 <del>5</del> <del>6</del> <del>2</del> 8 |                   |
| - 2 4 9 8 7                                |                   |
| 6 0 6 4 1                                  |                   |

### 3. Solve the following.

a.

| kg |   | g |              |              |
|----|---|---|--------------|--------------|
|    |   |   | 8            | 13           |
| 7  | 6 | 8 | <del>9</del> | <del>3</del> |
| -  | 2 | 4 | 3            | 7            |
|    | 5 | 2 | 5            | 1            |
|    |   |   |              | 8            |

b.

| kg |   | g |              |              |
|----|---|---|--------------|--------------|
|    |   |   | 13           |              |
|    |   | 8 | <del>3</del> | 12           |
|    | 2 | 8 | <del>9</del> | <del>4</del> |
| -  | 1 | 4 | 7            | 8            |
|    | 1 | 4 | 1            | 5            |
|    |   |   |              | 3            |

c.

| kg |   | g            |              |              |
|----|---|--------------|--------------|--------------|
|    |   | 15           | 13           |              |
|    | 4 | <del>5</del> | <del>3</del> | 12           |
|    | 9 | <del>5</del> | <del>6</del> | <del>4</del> |
| -  | 4 | 4            | 9            | 9            |
|    | 5 | 0            | 6            | 4            |
|    |   |              |              | 3            |

## Word Problems

### 1. Solve the following word problems.

- a. Weight of oranges

=

Weight of apples

=

Weight of grapes

=

Total weight of fruits

=

| kg |    | g |   |   |
|----|----|---|---|---|
| 1  |    |   |   |   |
| 5  | 2  | 0 | 0 |   |
| 3  | 5  | 0 | 0 |   |
| +  | 2  | 3 | 7 | 5 |
|    | 11 | 0 | 7 | 5 |

Therefore, Mohan bought 11 kg 75 g fruits.

- b. Weight of Rice

=

Weight of Rice from another shop

=

Total weight of rice

=

| kg |   | g |   |   |
|----|---|---|---|---|
| 1  | 1 | 1 |   |   |
| 1  | 6 | 3 | 5 | 0 |
| +  | 1 | 3 | 7 | 5 |
|    | 3 | 0 | 1 | 0 |

Therefore Reena bought 30 kg 105 g rice.

- c. Weights of full bucket water

=

Weights of empty bucket

=

Weights of water in bucket

=

| kg |   | g            |              |              |
|----|---|--------------|--------------|--------------|
|    |   | 12           | 11           |              |
|    | 3 | <del>2</del> | <del>1</del> | 10           |
|    | 1 | <del>4</del> | <del>3</del> | <del>2</del> |
| -  |   | 1            | 3            | 8            |
|    | 1 | 2            | 9            | 3            |

The weight of water in bucket is 12 kg 935 g.

- d. Weight of tin with refined oil

=

Weight of empty tin

=

Total weight of tin with refined oil

=

| kg |   | g  |    |  |
|----|---|----|----|--|
|    |   | 12 | 11 |  |
|    | 3 | 2  |    |  |

# HOTS

1. Add the following.

a.

| kg | g |   |   |
|----|---|---|---|
| 1  | 0 | 0 | 0 |
| +  |   | 4 | 5 |
|    | 1 | 4 | 5 |

b.

| kg | g |   |   |
|----|---|---|---|
| 2  | 0 | 0 | 0 |
| +  |   | 5 | 5 |
|    | 2 | 5 | 5 |

c.

| kg | g |   |   |
|----|---|---|---|
| 1  | 0 | 0 | 0 |
| +  |   | 2 | 4 |
|    | 1 | 2 | 4 |

d.

| kg | g |   |   |
|----|---|---|---|
| 2  | 0 | 0 | 0 |
| +  |   | 6 | 0 |
|    | 2 | 6 | 0 |

2. Subtract the following.

a.

| kg | g            |              |              |
|----|--------------|--------------|--------------|
| 1  | 9            | 10           |              |
| -  | <del>2</del> | <del>0</del> | <del>0</del> |
|    |              | 2            | 5            |
|    | 1            | 7            | 5            |

b.

| kg | g            |              |              |
|----|--------------|--------------|--------------|
|    | 9            | 10           |              |
| -  | <del>1</del> | <del>0</del> | <del>0</del> |
|    |              | 6            | 5            |
|    |              | 3            | 5            |

c.

| kg | g            |              |              |
|----|--------------|--------------|--------------|
| 2  | 9            | 10           |              |
| -  | <del>3</del> | <del>0</del> | <del>0</del> |
|    |              | 8            | 5            |
|    | 2            | 1            | 5            |

d.

| kg | g            |              |              |
|----|--------------|--------------|--------------|
| 1  | 9            | 10           |              |
| -  | <del>2</del> | <del>0</del> | <del>0</del> |
|    |              | 4            | 5            |
|    | 1            | 5            | 5            |

## Measurement of Capacity

Exercise 12 A**1. Convert the following into mL.**

- |                                                 |                                                 |
|-------------------------------------------------|-------------------------------------------------|
| a. $1 \times 1000 \text{ mL} = 1000 \text{ mL}$ | b. $2 \times 1000 \text{ mL} = 2000 \text{ mL}$ |
| c. $3 \times 1000 \text{ mL} = 3000 \text{ mL}$ | d. $4 \times 1000 \text{ mL} = 4000 \text{ mL}$ |
| e. $5 \times 1000 \text{ mL} = 5000 \text{ mL}$ | f. $6 \times 1000 \text{ mL} = 6000 \text{ mL}$ |
| g. $8 \times 1000 \text{ mL} = 8000 \text{ mL}$ | h. $9 \times 1000 \text{ mL} = 9000 \text{ mL}$ |

**2. Convert the following into mL.**

- a.  $4 \times 1000 \text{ mL} + 520 \text{ mL} = 4000 \text{ mL} + 520 \text{ mL} = 4520 \text{ mL}$   
b.  $6 \times 1000 \text{ mL} + 325 \text{ mL} = 7000 \text{ mL} + 325 \text{ mL} = 7325 \text{ mL}$   
c.  $7 \times 1000 \text{ mL} + 325 \text{ mL} = 7000 \text{ mL} + 325 \text{ mL} = 7325 \text{ mL}$   
d.  $8 \times 1000 \text{ mL} + 249 \text{ mL} = 8000 \text{ mL} + 249 \text{ mL} = 8249 \text{ mL}$   
e.  $9 \times 1000 \text{ mL} + 678 \text{ mL} = 9000 \text{ mL} + 678 \text{ mL} = 9678 \text{ mL}$   
f.  $5 \times 1000 \text{ mL} + 999 \text{ mL} = 5000 \text{ mL} + 999 \text{ mL} = 5999 \text{ mL}$

**3. Convert the following into L.**

- |                                                                                         |                                                                                         |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| a. $1000 \text{ mL} = 1 \text{ L}$<br>$(1000 \times 1000) \text{ L}$<br>$= 1 \text{ L}$ | e. $1000 \text{ mL} = 1 \text{ L}$<br>$(5000 \times 1000) \text{ L}$<br>$= 5 \text{ L}$ |
| b. $1000 \text{ mL} = 1 \text{ L}$<br>$(2000 \times 1000) \text{ L}$<br>$= 2 \text{ L}$ | f. $1000 \text{ mL} = 1 \text{ L}$<br>$(6000 \times 1000) \text{ L}$<br>$= 6 \text{ L}$ |
| c. $1000 \text{ mL} = 1 \text{ L}$<br>$(3000 \times 1000) \text{ L}$<br>$= 3 \text{ L}$ | g. $1000 \text{ mL} = 1 \text{ L}$<br>$(7000 \times 1000) \text{ L}$<br>$= 7 \text{ L}$ |
| d. $1000 \text{ mL} = 1 \text{ L}$<br>$(4000 \times 1000) \text{ L}$<br>$= 4 \text{ L}$ | h. $1000 \text{ mL} = 1 \text{ L}$<br>$(8000 \times 1000) \text{ L}$<br>$= 8 \text{ L}$ |

**4. Convert the following into L and mL.**

- a.  $1000 \text{ mL} = 1 \text{ L}$   
 $6240 \text{ mL} = (6240 \div 1000) \text{ L}$   
Quotient = 6, Remainder = 240  
Therefore,  $6240 \text{ mL} = 6 \text{ L } 240 \text{ mL}$

- b.  $3262 \text{ mL} = (3262 \div 1000) \text{ L}$   
 Quotient = 3, Remainder = 262  
 Therefore,  $3262 \text{ mL} = 3 \text{ L } 262 \text{ mL}$
- c.  $6299 \text{ mL} = (6299 \div 1000) \text{ L}$   
 Quotient = 6, Remainder = 299  
 Therefore,  $6299 \text{ mL} = 6 \text{ L } 299 \text{ mL}$
- d.  $2692 \text{ mL} = (2692 \div 1000) \text{ L}$   
 Quotient = 2, Remainder = 692  
 Therefore,  $2692 \text{ mL} = 2 \text{ L } 692 \text{ mL}$
- e.  $7635 \text{ mL} = (7635 \div 1000) \text{ L}$   
 Quotient = 7, Remainder = 635  
 Therefore,  $7635 \text{ mL} = 7 \text{ L } 635 \text{ mL}$
- f.  $9246 \text{ mL} = (9246 \div 1000) \text{ L}$   
 Quotient = 9, Remainder = 246  
 Therefore,  $9246 \text{ mL} = 9 \text{ L } 246 \text{ mL}$
- g.  $7986 \text{ mL} = (7986 \div 1000) \text{ L}$   
 Quotient = 7, Remainder = 986  
 Therefore,  $7986 \text{ mL} = 7 \text{ L } 986 \text{ mL}$
- h.  $8226 \text{ mL} = (8226 \div 1000) \text{ L}$   
 Quotient = 8, Remainder = 226  
 Therefore,  $8226 \text{ mL} = 8 \text{ L } 226 \text{ mL}$

**5. Fill in the blanks.**

- a.  $6 \times 1000 \text{ mL} + 300 \text{ mL} = 63000 \text{ mL}$
- b.  $965 \text{ mL}$
- c.  $(9000 \div 1000) \text{ L} = 9 \text{ L}$
- d.  $(7050 \div 1000) \text{ L} = 7 \text{ L } 500 \text{ mL}$

**Exercise 12 B**

**1. Add the following.**

a.

|   | L |   | mL |   |   |
|---|---|---|----|---|---|
|   | 7 | 6 | 5  | 8 | 6 |
| + | 2 | 3 | 1  | 1 | 1 |
|   | 9 | 9 | 6  | 9 | 7 |

b.

|   | L |   | mL |   |   |
|---|---|---|----|---|---|
|   | 1 | 1 | 1  | 1 |   |
|   | 5 | 5 | 5  | 5 | 5 |
| + | 2 | 5 | 6  | 6 | 6 |
|   | 8 | 2 | 2  | 2 | 1 |

c.

|   | L |   | mL |   |   |
|---|---|---|----|---|---|
|   | 1 | 1 | 1  | 1 |   |
|   | 1 | 7 | 8  | 2 | 6 |
| + | 1 | 2 | 1  | 7 | 5 |
|   | 3 | 0 | 0  | 0 | 1 |

d.

|   | L |   | mL |   |   |
|---|---|---|----|---|---|
|   |   |   | 1  | 1 |   |
|   | 4 | 7 | 4  | 6 | 5 |
| + | 1 | 1 | 2  | 6 | 5 |
|   | 5 | 8 | 7  | 3 | 0 |

e.

|   | L |   | mL |   |   |
|---|---|---|----|---|---|
|   |   |   | 1  |   |   |
|   | 4 | 6 | 3  | 4 | 4 |
| + | 3 | 2 | 1  | 8 | 5 |
|   | 7 | 8 | 5  | 2 | 9 |

f.

|   | L |   | mL |   |   |
|---|---|---|----|---|---|
|   | 1 |   |    | 1 |   |
|   | 3 | 5 | 4  | 1 | 7 |
| + | 3 | 8 | 5  | 1 | 9 |
|   | 7 | 3 | 9  | 3 | 6 |

g.

|   | L |   | mL |   |   |
|---|---|---|----|---|---|
|   | 1 |   | 1  |   |   |
|   | 4 | 8 | 2  | 8 | 6 |
| + | 1 | 8 | 5  | 9 | 2 |
|   | 6 | 6 | 8  | 7 | 8 |

h.

|   | L |   | mL |   |   |
|---|---|---|----|---|---|
|   |   | 1 | 1  |   |   |
|   | 6 | 2 | 8  | 5 | 4 |
| + | 1 | 3 | 8  | 9 | 5 |
|   | 7 | 6 | 7  | 4 | 9 |

i.

|   | L |   | mL |   |   |
|---|---|---|----|---|---|
|   | 1 | 1 |    | 1 |   |
|   | 7 | 6 | 4  | 2 | 6 |
| + | 1 | 3 | 6  | 2 | 8 |
|   | 9 | 0 | 0  | 5 | 4 |

## 2. Subtract the following.

a.

|   | L            |              | mL           |              |              |
|---|--------------|--------------|--------------|--------------|--------------|
|   |              | 12           | 10           | 14           |              |
|   | 8            | <del>2</del> | <del>0</del> | <del>4</del> | 10           |
|   | <del>9</del> | <del>3</del> | <del>1</del> | <del>5</del> | <del>0</del> |
| - | 6            | 9            | 4            | 7            | 5            |
|   | 2            | 3            | 6            | 7            | 5            |

b.

|   | L            |              | mL           |              |              |
|---|--------------|--------------|--------------|--------------|--------------|
|   |              | 10           |              |              |              |
|   | 3            | <del>0</del> | 9            | 9            | 15           |
|   | <del>4</del> | <del>1</del> | <del>0</del> | <del>0</del> | <del>5</del> |
| - | 1            | 6            | 0            | 8            | 9            |
|   | 2            | 4            | 9            | 1            | 6            |

c.

|   | L            |              | mL           |              |              |
|---|--------------|--------------|--------------|--------------|--------------|
|   | 3            | 13           | 5            | 10           | 15           |
|   | <del>4</del> | <del>3</del> | <del>6</del> | <del>0</del> | <del>5</del> |
| - | 2            | 9            | 3            | 8            | 5            |
|   | 1            | 4            | 2            | 2            | 0            |

d.

|   | L            |               | mL           |               |   |
|---|--------------|---------------|--------------|---------------|---|
|   | 2            | <del>11</del> | 2            | <del>11</del> |   |
|   | <del>3</del> | <del>1</del>  | <del>3</del> | <del>1</del>  | 7 |
| - | 2            | 7             | 1            | 7             | 6 |
|   |              | 4             | 1            | 4             | 1 |

e.

|   | L |   | mL |   |   |
|---|---|---|----|---|---|
|   | 4 | 8 | 1  | 2 | 1 |
| - | 1 | 8 | 1  | 2 | 1 |
|   | 3 | 0 | 0  | 0 | 0 |

f.

|  | L |  | mL |  |  |
|--|---|--|----|--|--|
|  |   |  |    |  |  |

#### 4. Subtract the following.

a.

|   | L            |              | mL           |   |   |
|---|--------------|--------------|--------------|---|---|
|   | 7            | 5            | 13           |   |   |
|   | <del>8</del> | <del>6</del> | <del>8</del> | 2 | 5 |
| - | 2            | 9            | 7            | 2 | 5 |
|   | 5            | 6            | 6            | 0 | 0 |

b.

|   | L |   | mL |              |              |
|---|---|---|----|--------------|--------------|
|   |   |   | 8  | 12           |              |
|   | 9 | 5 | 8  | <del>9</del> | <del>2</del> |
| - | 7 | 3 | 5  | 8            | 6            |
|   | 2 | 2 | 3  | 0            | 6            |

c.

|   | L            |              | mL           |              |              |
|---|--------------|--------------|--------------|--------------|--------------|
|   |              |              | 17           |              |              |
|   | 2            | 5            | 10           | <del>7</del> | 12           |
|   | <del>2</del> | <del>6</del> | <del>1</del> | <del>8</del> | <del>2</del> |
| - | 1            | 1            | 9            | 9            | 9            |
|   | 1            | 4            | 1            | 8            | 3            |

d.

|   | L            |              | mL           |              |     |
|---|--------------|--------------|--------------|--------------|-----|
|   |              | 11           | 12           |              |     |
|   | 6            | <del>1</del> | <del>2</del> | 15           |     |
|   | <del>7</del> | <del>2</del> | <del>3</del> | <del>5</del> | 8 9 |
| - | 4            | 2            | 9            | 6            | 7 9 |
|   | 2            | 9            | 3            | 9            | 1 0 |

### Word Problems

#### 1. Solve the following word problems.

- a. The capacity of petrol tank in a car =

Petrol have in car =

Petrol can have in car =

Therefore, 9 L 275 mL petrol can more it have.

|   | L            |              | mL           |              |              |
|---|--------------|--------------|--------------|--------------|--------------|
|   |              | 16           | 7            | 9            | 10           |
|   | <del>2</del> | <del>6</del> | <del>8</del> | <del>0</del> | <del>0</del> |
| - | 1            | 7            | 5            | 2            | 5            |
|   | 0            | 9            | 2            | 7            | 5            |

- b. Milk bought from first dairy =

Milk bought from another dairy =

Total milk bought from dairy =

Therefore, She bought 12 L milk on karan's birthday.

|   | L  |   | mL |   |  |
|---|----|---|----|---|--|
|   | 1  | 1 |    |   |  |
|   | 6  | 7 | 5  | 0 |  |
| + | 5  | 2 | 5  | 0 |  |
|   | 12 | 0 | 0  | 0 |  |

- c. The capacity of a bucket =

Water contains in bucket =

Water can be poured into it =

Therefore, 3L 675 mL can be poured into bucket.

|   | L            |              | mL           |              |  |
|---|--------------|--------------|--------------|--------------|--|
|   | 5            | 9            | 9            | 10           |  |
|   | <del>8</del> | <del>0</del> | <del>0</del> | <del>0</del> |  |
| - | 2            | 3            | 2            | 5            |  |
|   | 3            | 6            | 7            | 5            |  |

- d. Capacity of a jug =

Salena takes cold drink from jug =

Cold drink left in the jug =

Therefore, 535 mL cold drink left in the jug.

|  | L            |              | mL |    |  |
|--|--------------|--------------|----|----|--|
|  |              | 12           |    |    |  |
|  |              | 2            | 9  | 10 |  |
|  | <del>1</del> | <del>3</del> |    |    |  |

e.

|   | L |   | mL |   |   |
|---|---|---|----|---|---|
|   |   |   | 1  |   |   |
|   | 1 | 2 | 5  | 7 | 5 |
| + | 2 | 5 | 3  | 8 | 0 |
|   | 3 | 7 | 9  | 5 | 5 |

37 L 955 mL

f.

|   | L |   | mL           |              |              |
|---|---|---|--------------|--------------|--------------|
|   |   |   | 11           |              |              |
|   |   | 7 | <del>1</del> | <del>1</del> | 15           |
|   | 1 | 7 | <del>8</del> | <del>2</del> | <del>5</del> |
| - | 1 | 1 | 3            | 2            | 8            |
|   | 0 | 6 | 4            | 9            | 7            |

6 L 495 mL

g. Juice in a bottle

=

Aman drink juice from bottle

=

Juice left in the bottle

=

Therefore, 7 L 300 mL juice left in the bottle.

| L            | mL           |   |   |
|--------------|--------------|---|---|
| 7            | 10           |   |   |
| <del>8</del> | <del>0</del> | 0 | 0 |
|              | 7            | 0 | 0 |
| 7            | 3            | 0 | 0 |

## HOTS

1. Compare the capacities and put '<', '>' or '=' in the box.

a. 100 mL  1 L

b. 500 L 750 mL  520 L

c. 2 L  2000 mL

d. 220 mL  250 mL

e. 30 L  3 L 30 mL

## Mental Maths

1. 1 L = 500 mL + 500 mL

2. Four 250 mL glasses will fill a 1 L jug.

3. Fill in the blanks.

a. 400 mL + 100 mL + 500 mL = 1 L

b. 7 L 450 mL + 1 L 550 mL = 9 L

c. 1 L = 250 mL + 250 mL + 250 mL + 250 mL

4. Observe the capacity of two water tanks and tick which has more capacity?

a.



b.



5. Complete the table.

| Litres      | 2    | 5    | 7    | 9    | 1    | 8    |
|-------------|------|------|------|------|------|------|
| Millilitres | 2000 | 5000 | 7000 | 9000 | 1000 | 8000 |

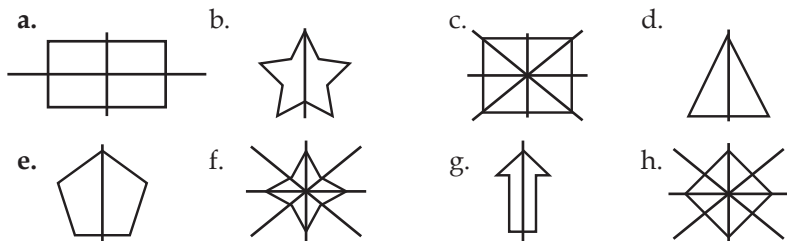
6. Guess and match the following:

- a. A tea kettle → i. 30 L
- b. A fish tank → ii. 100 mL
- c. A shampoo bottle → iii. 2 L
- d. A medicine bottle → iv. 200 mL

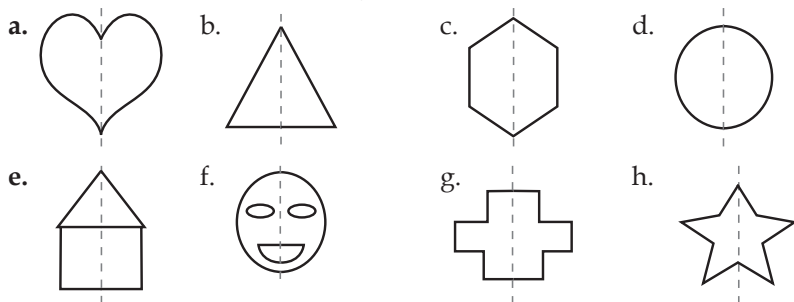
# Symmetry and Patterns

## Exercise 13 A

1. Draw all possible lines of symmetry in the following shapes.



2. Draw the other half of each symmetrical shape.

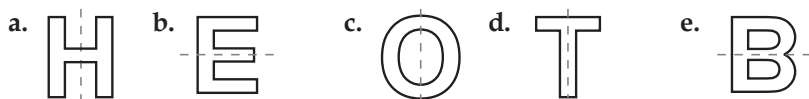


## Exercise 13 B

1. Draw all possible lines of symmetry in the following English letters.

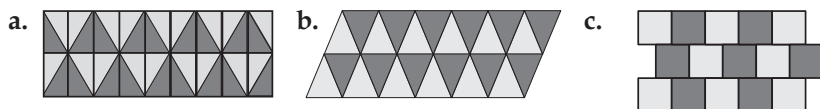


2. Draw the other half to complete the following symmetrical letters.



## Exercise 13 C

1. Complete each of the following tiling patterns.

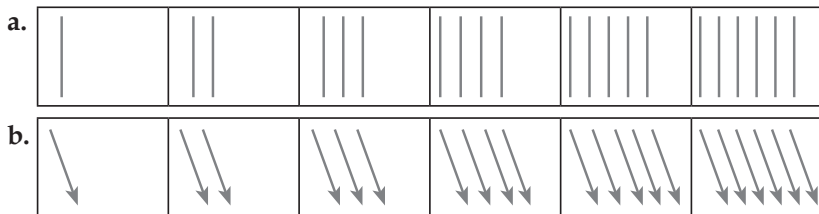


2. Look at the following images and cross the one which does not make a tiling pattern.



### Exercise 13 D

1. Look at the following patterns and draw the next shapes in the sequence.



### Exercise 13 E

1. Fill in the blanks and tick (✓) the correct box.

|    |                   |     |                                     |      |                                     |
|----|-------------------|-----|-------------------------------------|------|-------------------------------------|
| a. | $4 + 5 = 9$       | odd | <input checked="" type="checkbox"/> | even | <input type="checkbox"/>            |
| b. | $8 + 2 = 10$      | odd | <input type="checkbox"/>            | even | <input checked="" type="checkbox"/> |
| c. | $8 + 8 = 16$      | odd | <input type="checkbox"/>            | even | <input checked="" type="checkbox"/> |
| d. | $6 + 5 = 13$      | odd | <input checked="" type="checkbox"/> | even | <input type="checkbox"/>            |
| e. | $10 - 2 = 8$      | odd | <input type="checkbox"/>            | even | <input checked="" type="checkbox"/> |
| f. | $7 - 3 = 4$       | odd | <input type="checkbox"/>            | even | <input checked="" type="checkbox"/> |
| g. | $8 - 5 = 3$       | odd | <input checked="" type="checkbox"/> | even | <input type="checkbox"/>            |
| h. | $2 \times 4 = 8$  | odd | <input type="checkbox"/>            | even | <input checked="" type="checkbox"/> |
| i. | $3 \times 3 = 9$  | odd | <input checked="" type="checkbox"/> | even | <input type="checkbox"/>            |
| j. | $4 \times 3 = 12$ | odd | <input type="checkbox"/>            | even | <input checked="" type="checkbox"/> |

2. Now, can you find out?

|    |                           |    |                          |
|----|---------------------------|----|--------------------------|
| a. | Even + Even = Even        | b. | Even - Even = Even       |
| c. | Even $\times$ Even = Even | d. | Even + Odd = Odd         |
| e. | Even - Odd = Odd          | f. | Even $\times$ Odd = Even |
| g. | Odd + Odd = Even          | h. | Odd - Odd = Even         |

# HOTS

Circle the box that will come next in each of the following:



## Exercise 14 A

### 1. Fill in the blanks

- 24 hours = 1 day
- 1 hour = 60 minutes
- The longer hand is called the minute hand.
- The shorter hand is called the hour hand.
- 1 week = 7 days
- 1 month = 4 weeks
- 1 year = 12 months
- The hour hand takes 2 complete rounds of the clock in one day.
- The minute hand covers 60 small divisions in 1 hour.

## Exercise 14 B

### 1. Observe each of the given clock and write the correct time shown in the form of hours : minutes.

-   
4:15
-   
4:45
-   
6:30
-   
1:45

### 2. Write the time shown by the clocks.

-   
12:05
-   
1:40
-   
2:20
-   
6:35

### 3. Draw the two hands of each of the following clocks to show the given time.

-   
10 o'clock
-   
half past 9
-   
7:15
-   
8:45

**4. Match the time in numbers with the time in words.**

- |          |                               |
|----------|-------------------------------|
| a. 6:40  | → (i) seven thirty-five       |
| b. 5:20  | → (ii) twelve o' clock        |
| c. 10:15 | → (iii) six forty             |
| d. 12:00 | → (iv) five twenty            |
| e. 7:35  | → (v) ten minutes past eleven |
| f. 11:10 | → (vi) quarter past ten       |

**Exercise 14 C**

**1. Write the time as am or pm.**

- |                                |       |
|--------------------------------|-------|
| a. 5 o' clock in the morning.  | 5 am  |
| b. 8 o' clock at night.        | 8 pm  |
| c. 10 o' clock in the morning. | 10 am |
| d. 11 o' clock at night.       | 11 pm |

**2. Write the time using am/pm.**

- |                        |           |
|------------------------|-----------|
| a. 6:20 in the morning | 6 : 20 am |
| b. 2:58 afternoon      | 2 : 58 pm |
| c. 4:30 after midnight | 4 : 30 am |
| d. 7:30 in the evening | 7 : 30 pm |

**3. Write 3 hours after.**

- |             |            |             |           |
|-------------|------------|-------------|-----------|
| a. 8:15 pm  | 11 : 15 pm | b. 11:15 pm | 2 : 15 am |
| c. 10:30 am | 1 : 30 pm  | d. 3:30 pm  | 6 : 30 pm |

**Exercise 14 D**

**1. Convert the following into hours.**

- |                                                                       |                                                                        |
|-----------------------------------------------------------------------|------------------------------------------------------------------------|
| a. 1 days = 24 hours<br>6 days = $6 \times 24$ hours<br>= 144 hours   | d. 1 days = 24 hours<br>17 days = $17 \times 24$ hours<br>= 408 hours  |
| b. 1 days = 24 hours<br>8 days = $8 \times 24$ hours<br>= 192 hours   | e. 1 days = 24 hours<br>25 days = $25 \times 24$ hours<br>= 600 hours  |
| c. 1 days = 24 hours<br>12 days = $12 \times 24$ hours<br>= 288 hours | f. 1 days = 24 hours<br>50 days = $50 \times 24$ hours<br>= 1200 hours |

$$\begin{aligned}\text{g. } 1 \text{ days} &= 24 \text{ hours} \\ 14 \text{ days} &= 14 \times 24 \text{ hours} \\ &= 336 \text{ hours}\end{aligned}$$

$$\begin{aligned}\text{h. } 1 \text{ days} &= 24 \text{ hours} \\ 28 \text{ days} &= 28 \times 24 \text{ hours} \\ &= 672 \text{ hours}\end{aligned}$$

$$\begin{aligned}\text{i. } 1 \text{ days} &= 24 \text{ hours} \\ 70 \text{ days} &= 70 \times 24 \text{ hours} \\ &= 1680 \text{ hours}\end{aligned}$$

$$\begin{aligned}\text{j. } 1 \text{ days} &= 24 \text{ hours} \\ 29 \text{ days} &= 29 \times 24 \text{ hours} \\ &= 699 \text{ hours}\end{aligned}$$

$$\begin{aligned}\text{k. } 1 \text{ days} &= 24 \text{ hours} \\ 37 \text{ days} &= 37 \times 24 \text{ hours} \\ &= 888 \text{ hours}\end{aligned}$$

$$\begin{aligned}\text{l. } 1 \text{ days} &= 24 \text{ hours} \\ 120 \text{ days} &= 120 \times 24 \text{ hours} \\ &= 2880 \text{ hours}\end{aligned}$$

## 2. Convert the following days and hours into hours.

$$\begin{aligned}\text{a. } 1 \text{ day} &= 24 \text{ hours} \\ 10 \text{ days } 8 \text{ hours} &= 10 \times 24 \text{ hours} + 8 \text{ hours} \\ &= 240 \text{ hours} + 8 \text{ hours} \\ &= 248 \text{ hours}\end{aligned}$$

$$\begin{aligned}\text{b. } 1 \text{ day} &= 24 \text{ hours} \\ 4 \text{ days } 14 \text{ hours} &= 4 \times 24 \text{ hours} + 14 \text{ hours} \\ &= 96 \text{ hours} + 14 \text{ hours} \\ &= 110 \text{ hours}\end{aligned}$$

$$\begin{aligned}\text{c. } 1 \text{ day} &= 24 \text{ hours} \\ 3 \text{ days } 7 \text{ hours} &= 3 \times 24 \text{ hours} + 7 \text{ hours} \\ &= 72 \text{ hours} + 7 \text{ hours} \\ &= 79 \text{ hours}\end{aligned}$$

$$\begin{aligned}\text{d. } 1 \text{ day} &= 24 \text{ hours} \\ 5 \text{ days } 4 \text{ hours} &= 5 \times 24 \text{ hours} + 4 \text{ hours} \\ &= 120 \text{ hours} + 4 \text{ hours} \\ &= 124 \text{ hours}\end{aligned}$$

$$\begin{aligned}\text{e. } 1 \text{ day} &= 24 \text{ hours} \\ 3 \text{ days } 10 \text{ hours} &= 3 \times 24 \text{ hours} + 10 \text{ hours} \\ &= 72 \text{ hours} + 10 \text{ hours} \\ &= 82 \text{ hours}\end{aligned}$$

$$\begin{aligned}\text{f. } 1 \text{ day} &= 24 \text{ hours} \\ 7 \text{ days} &= 7 \times 24 \text{ hours} \\ &= 168 \text{ hours}\end{aligned}$$

g. 1 day = 24 hours  
 5 days 5 hours =  $5 \times 24 \text{ hours} + 5 \text{ hours}$   
 = 120 hours + 5 hours  
 = 125 hours

h. 1 day = 24 hours  
 4 days 11 hours =  $4 \times 24 \text{ hours} + 11 \text{ hours}$   
 = 96 hours + 11 hours  
 = 107 hours

i. 1 day = 24 hours  
 9 days 6 hours =  $9 \times 24 \text{ hours} + 6 \text{ hours}$   
 = 216 hours + 6 hours  
 = 222 hours

**3. Convert the following hours into minutes.**

a. 1 hours = 60 minutes  
 4 hours =  $4 \times 60 \text{ minutes}$   
 = 240 minutes

f. 1 hours = 60 minutes  
 54 hours =  $54 \times 60 \text{ minutes}$   
 = 3240 minutes

b. 1 hours = 60 minutes  
 3 hours =  $3 \times 60 \text{ minutes}$   
 = 180 minutes

g. 1 hours = 60 minutes  
 95 hours =  $95 \times 60 \text{ minutes}$   
 = 5700 minutes

c. 1 hours = 60 minutes  
 6 hours =  $6 \times 60 \text{ minutes}$   
 = 360 minutes

h. 1 hours = 60 minutes  
 115 hours =  $115 \times 60 \text{ minutes}$   
 = 6900 minutes

d. 1 hours = 60 minutes  
 24 hours =  $24 \times 60 \text{ minutes}$   
 = 1440 minutes

i. 1 hours = 60 minutes  
 99 hours =  $99 \times 60 \text{ minutes}$   
 = 5940 minutes

e. 1 hours = 60 minutes  
 35 hours =  $35 \times 60 \text{ minutes}$   
 = 2100 minutes

**4. Convert the following hours and minutes into minutes.**

a. 1 hour = 60 minutes  
 30 hours 20 minutes =  $3 \times 60 \text{ minutes} + 20 \text{ minutes}$   
 = 180 minutes + 20 minutes  
 = 200 minutes

- b.** 1 hour = 60 minutes  
7 hours 25 minutes =  $7 \times 60$  minutes + 25 minutes  
= 420 minutes + 25 minutes  
= 445 minutes
- c.** 1 hour = 60 minutes  
9 hours 25 minutes =  $9 \times 60$  minutes + 25 minutes  
= 540 minutes + 25 minutes  
= 565 minutes
- d.** 1 hour = 60 minutes  
10 hours 30 minutes =  $10 \times 60$  minutes + 30 minutes  
= 600 minutes + 30 minutes  
= 630 minutes
- e.** 1 hour = 60 minutes  
8 hours =  $8 \times 60$  minutes  
= 480 minutes
- f.** 1 hour = 60 minutes  
11 hours 50 minutes =  $11 \times 60$  minutes + 50 minutes  
= 660 minutes + 50 minutes  
= 710 minutes
- g.** 1 hour = 60 minutes  
5 hours 15 minutes =  $5 \times 60$  minutes + 15 minutes  
= 300 minutes + 15 minutes  
= 315 minutes
- h.** 1 hour = 60 minutes  
2 hours 40 minutes =  $2 \times 60$  minutes + 40 minutes  
= 120 minutes + 40 minutes  
= 160 minutes
- i.** 1 hour = 60 minutes  
4 hours 45 minutes =  $4 \times 60$  minutes + 45 minutes  
= 240 minutes + 45 minutes  
= 285 minutes

### **Exercise 14 E**

1. **Convert the following into hours.**
  - a. New year's day      1 January
  - b. Vasant panchami    10 February
  - c. Republic day        26 January
  - d. Holi                    21 March
  - e. Eid                      4 June
  - f. Children's day        14 November
  - g. Independence day   15 August
  - h. Teacher's day        5 September
2. **From the given calendar answer the following questions.**
  - a.
    - (i) 7 months                      (ii) 4 months
  - b. January, March, May, July, August, October, December
  - c. February                      d. Yes
  - e. Sunday                        f. 4
3. **How many years are there in a decade?**

There are 10 years in a decade.
4. **How many years are there in a century?**

There are 100 years in a century.
5. **Find which of the following years are leap years, circle them.**

2024, 2028, 2032

### **Exercise 14 F**

1. **Convert the following into days.**

|                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"><li>a. 1 months = 30 days</li><li>3 months = <math>3 \times 30</math> days</li><li>= 90 days</li><li>b. 1 months = 30 days</li><li>9 months = <math>9 \times 30</math> days</li><li>= 270 days</li><li>c. 1 months = 30 days</li><li>2 months = <math>2 \times 30</math> days</li><li>= 60 days</li></ol> | <ol style="list-style-type: none"><li>d. 1 months = 30 days</li><li>7 months = <math>7 \times 30</math> days</li><li>= 210 days</li><li>e. 1 months = 30 days</li><li>6 months = <math>6 \times 30</math> days</li><li>= 180 days</li><li>f. 1 months = 30 days</li><li>4 months = <math>4 \times 30</math> days</li><li>= 120 days</li></ol> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 2. Convert the following into days.

- a. 1 weeks = 7 days  
2 weeks =  $2 \times 7$  days  
= 14 days
- b. 1 weeks = 7 days  
2 weeks 5 days =  $2 \times 7$  days + 5 days  
= 14 days + 5 days  
= 19 days
- c. 1 weeks = 7 days  
9 weeks =  $9 \times 7$  days  
= 63 days
- d. 1 weeks = 7 days  
3 weeks =  $3 \times 7$  days  
= 21 days
- e. 1 weeks = 7 days  
6 weeks 2 days =  $6 \times 7$  days + 2 days  
= 42 days + 2 days  
= 44 days
- f. 1 weeks = 7 days  
5 weeks 3 days =  $5 \times 7$  days + 3 days  
= 35 days + 3 days  
= 38 days

## 3. Convert the following into months.

- |                                |                                  |
|--------------------------------|----------------------------------|
| a. 1 years = 12 months         | d. 1 years = 12 months           |
| 4 years = $12 \times 4$ months | 10 years = $12 \times 10$ months |
| = 48 months                    | = 120 months                     |
| b. 1 years = 12 months         | e. 1 years = 12 months           |
| 6 years = $12 \times 6$ months | 11 years = $12 \times 11$ months |
| = 72 months                    | = 132 months                     |
| c. 1 years = 12 months         | f. 1 years = 12 months           |
| 9 years = $12 \times 9$ months | 14 years = $12 \times 14$ months |
| = 108 months                   | = 168 months                     |

**4. Convert the following into days.**

- a. 1 year = 365 days  
5 years =  $365 \times 5$  days  
= 1825 days
- b. 1 year = 365 days  
8 years =  $365 \times 8$  days  
= 2920 days
- c. 1 year = 365 days  
7 years =  $365 \times 7$  days  
= 2555 days
- d. 1 year = 365 days  
7 years 21 days =  $365 \times 7$  days + 21 days  
= 2555 days + 21 days  
= 2576 days
- e. 1 year = 365 days  
3 years 15 days =  $365 \times 3$  days + 15 days  
= 1095 days + 15 days  
= 1110 days
- f. 1 year = 365 days  
9 years 31 days =  $365 \times 9$  days + 31 days  
= 3285 days + 31 days  
= 3316 days

**HOTS**

**1. Fill in the blanks with the correct year.**

- a. In which year were you promoted to class III? 2019
- b. Which year was it two years back? 2017
- c. Which year will it be after three years? 2022

# Money

## Exercise 15 A

1. Write the following amounts in words.
  - a. Seventy two rupees and fifty paise
  - b. Twenty five rupees and eighty five paise
  - c. One hundred fifteen rupees and sixty seven paise
  - d. Eight hundred four rupees and five paise
  - e. Eighty two rupees and nine paise
  - f. Three hundred six rupees and ninety paise
2. Write the following amounts in-short and long forms.

| Long form           | Short form |
|---------------------|------------|
| 73 rupees           | ₹ 73       |
| 90 paise            | ₹ 90       |
| 95 rupees 80 paise  | ₹ 90.80    |
| 150 rupees 49 paise | ₹ 150.49   |

## Exercise 15 B

1. Convert the following amounts into paise.
  - a. 1 Rupees = 100 paise  
 =  $(12 \times 100)$  paise + 24 paise  
 = 1200 paise + 24 paise  
 = 1224 paise
  - b. 1 Rupees = 100 paise  
 =  $(30 \times 100)$  paise + 25 paise  
 = 3000 paise + 25 paise  
 = 3025 paise
  - c. 1 Rupees = 100 paise  
 =  $(21 \times 100)$  paise + 05 paise  
 = 2100 paise + 05 paise  
 = 2105 paise

- d. 1 Rupees = 100 paise  
 =  $(88 \times 100)$  paise + 02 paise  
 = 8800 paise + 02 paise  
 = 8802 paise
- e. 1 Rupees = 100 paise  
 =  $(1 \times 100)$  paise + 06 paise  
 = 100 paise + 06 paise  
 = 106 paise
- f. 1 Rupees = 100 paise  
 =  $(28 \times 100)$  paise + 35 paise  
 = 2800 paise + 35 paise  
 = 2835 paise
- g. 1 Rupees = 100 paise  
 =  $(32 \times 100)$  paise + 35 paise  
 = 3200 paise + 35 paise  
 = 3235 paise
- h. 1 Rupees = 100 paise  
 =  $(88 \times 100)$  paise + 80 paise  
 = 8800 paise + 80 paise  
 = 8880 paise
- i. 1 Rupees = 100 paise  
 =  $(28 \times 100)$  paise + 05 paise  
 = 2800 paise + 05 paise  
 = 2805 paise
- j. 1 Rupees = 100 paise  
 =  $(40 \times 100)$  paise + 36 paise  
 = 4000 paise + 36 paise  
 = 4036 paise
- k. 1 Rupees = 100 paise  
 =  $(23 \times 100)$  paise + 40 paise  
 = 2300 paise + 40 paise  
 = 2340 paise
- l. 1 Rupees = 100 paise  
 =  $(84 \times 100)$  paise + 90 paise  
 = 8400 paise + 90 paise  
 = 8490 paise

- m. 1 Rupees = 100 paise  
 =  $(94 \times 100)$  paise + 50 paise  
 = 9400 paise + 50 paise  
 = 9450 paise
- n. 1 Rupees = 100 paise  
 =  $(89 \times 100)$  paise + 40 paise  
 = 8900 paise + 40 paise  
 = 8940 paise
- o. 1 Rupees = 100 paise  
 =  $(28 \times 100)$  paise + 10 paise  
 = 2800 paise + 10 paise  
 = 2810 paise

**2. Convert the following amounts into rupees and paise.**

- a. ₹ 2.20      b. ₹ 1.78      c. ₹ 66.66      d. ₹ 1  
 e. ₹ 2.08      f. ₹ 5      g. ₹ 34.75      h. ₹ 90.95  
 i. ₹ 80.75      j. ₹ 19.11      k. ₹ 17.25      l. ₹ 87.59  
 m. ₹ 94.62      n. ₹ 29.46      o. ₹ 87.65      p. ₹ 24.62

**3. Convert the following amounts into paise.**

- a.  $18 \times 100$  paise = 1800 paise      b.  $20 \times 100$  paise = 2000 paise  
 c.  $27 \times 100$  paise = 2700 paise      d.  $75 \times 100$  paise = 7500 paise  
 e.  $85 \times 100$  paise = 8500 paise      f.  $95 \times 100$  paise = 9500 paise  
 g.  $76 \times 100$  paise = 7600 paise      h.  $91 \times 100$  paise = 9100 paise  
 i.  $96 \times 100$  paise = 9600 paise      j.  $75 \times 100$  paise = 7500 paise  
 k.  $96 \times 100$  paise = 9600 paise      l.  $72 \times 100$  paise = 7200 paise  
 m.  $64 \times 100$  paise = 6400 paise      n.  $60 \times 100$  paise = 6000 paise  
 o.  $42 \times 100$  paise = 4200 paise      p.  $62 \times 100$  paise = 6200 paise

**4. Compare the amounts and put '<', '>' or '='.**

- a. ₹ 54.90  45 rupees 90 paise  
 b. ₹ 80  ₹ 82.50      c. ₹ 45.25  ₹ 55  
 d. 2345 p  ₹ 23      e. 6645 p  ₹ 65.50  
 f. ₹ 18  2200 p      g. 942 p  ₹ 5  
 h. 250 p  ₹ 2.50

## Exercise 15 C

### 1. Add the following.

a.

| ₹ | P       |
|---|---------|
| 1 |         |
| 3 | 5 5 0   |
| + | 2 6 3 5 |
|   | 6 1 8 5 |

b.

| ₹ | P       |
|---|---------|
| 1 |         |
| 7 | 5 2 0   |
| + | 1 7 6 9 |
|   | 9 2 8 9 |

c.

| ₹ | P       |
|---|---------|
| 1 | 1       |
| 3 | 9 3 3   |
| + | 5 6 9 6 |
|   | 9 6 2 9 |

d.

| ₹ | P       |
|---|---------|
|   |         |
| 1 | 5 2 5   |
| + | 8 0 0 0 |
|   | 9 5 2 5 |

e.

| ₹ | P       |
|---|---------|
| 1 | 1 1     |
| 2 | 7 3 5   |
| 3 | 2 6 0   |
| + | 2 8 3 5 |
|   | 8 8 3 0 |

f.

| ₹ | P       |
|---|---------|
| 2 | 1       |
| 3 | 5 1 5   |
| 3 | 9 4 5   |
| + | 1 8 3 0 |
|   | 9 2 9 0 |

g.

| ₹ | P       |
|---|---------|
| 1 | 1 1     |
| 1 | 5 6 5   |
| 3 | 0 6 5   |
| + | 4 5 6 5 |
|   | 9 1 9 5 |

h.

| ₹ | P       |
|---|---------|
|   | 1 1     |
| 2 | 3 7 5   |
| 3 | 0 0 0   |
| + | 2 4 2 5 |
|   | 7 8 0 0 |

### 2. Add the following money in your notebook.

a.

| ₹ | P       |
|---|---------|
| 6 | 5 3 5   |
| 2 | 0 5 0   |
| + | 1 2 0 0 |
|   | 9 7 8 5 |

b.

| ₹ | P       |
|---|---------|
| 4 | 0 0 0   |
| 2 | 2 5 0   |
| + | 2 5 3 5 |
|   | 8 7 8 5 |

c.

| ₹ | P       |
|---|---------|
| 1 | 1 1     |
| 4 | 5 2 5   |
| 3 | 3 7 5   |
| + | 1 9 5 0 |
|   | 9 8 5 0 |

d.

| ₹ | P       |
|---|---------|
| 7 | 6 5 0   |
| + | 2 0 0 0 |
|   | 9 6 5 0 |

## Exercise 15 D

### 1. Subtract the following.

a.

| ₹ | P                                      |
|---|----------------------------------------|
|   | 4 14 10                                |
| 7 | <del>8</del> <del>8</del> <del>8</del> |
| - | 6 2 7 5                                |
|   | 1 2 7 5                                |

b.

| ₹ | P                           |
|---|-----------------------------|
|   | 7 12                        |
| 9 | <del>8</del> <del>2</del> 5 |
| - | 5 4 4 0                     |
|   | 4 3 8 5                     |

c.

| ₹                                      | P       |
|----------------------------------------|---------|
| 5                                      | 9 12    |
| <del>8</del> <del>8</del> <del>2</del> | 5       |
| -                                      | 4 2 6 5 |
|                                        | 1 7 6 0 |

### 3. Subtract the following.

a.

|   | ₹            |              | P            |   |
|---|--------------|--------------|--------------|---|
|   |              | 9            |              |   |
|   | 6            | 10           | 10           |   |
|   | <del>7</del> | <del>0</del> | <del>0</del> | 0 |
| - | 5            | 6            | 8            | 0 |
|   | 1            | 3            | 2            | 0 |

b.

|   | ₹ |   | P |   |
|---|---|---|---|---|
|   | 8 | 5 | 7 | 5 |
| - | 1 | 5 | 5 | 0 |
|   | 7 | 0 | 2 | 5 |

c.

|   | ₹            |              | P            |              |
|---|--------------|--------------|--------------|--------------|
|   | 4            | 10           | 4            | 10           |
|   | <del>5</del> | <del>0</del> | <del>5</del> | <del>0</del> |
| - | 3            | 3            | 2            | 5            |
|   | 1            | 7            | 2            | 5            |

### Exercise 15 E

#### 1. Multiply the following.

a.

|   | ₹ |   | P |   |
|---|---|---|---|---|
|   | 1 | 1 | 2 |   |
|   | 2 | 4 | 4 | 5 |
| × |   |   |   | 4 |
|   | 9 | 7 | 8 | 0 |

b.

|   | ₹ |   | P |   |
|---|---|---|---|---|
|   | 1 | 1 |   |   |
|   | 3 | 8 | 5 | 0 |
| × |   |   |   | 2 |
|   | 7 | 7 | 0 | 0 |

c.

|   | ₹ |   | P |   |
|---|---|---|---|---|
|   | 1 | 1 |   |   |
|   | 1 | 3 | 4 | 0 |
| × |   |   |   | 3 |
|   | 4 | 0 | 2 | 0 |

d.

|   | ₹ |   | P |   |
|---|---|---|---|---|
|   | 1 | 1 |   |   |
|   | 2 | 3 | 4 | 0 |
| × |   |   |   | 3 |
|   | 7 | 0 | 2 | 0 |

e.

|   | ₹ |   | P |   |
|---|---|---|---|---|
|   | 2 | 2 | 3 |   |
|   | 1 | 3 | 3 | 5 |
| × |   |   |   | 7 |
|   | 9 | 3 | 4 | 5 |

f.

|   | ₹ |   | P |   |
|---|---|---|---|---|
|   | 3 | 1 | 2 |   |
|   | 1 | 6 | 2 | 5 |
| × |   |   |   | 5 |
|   | 8 | 1 | 2 | 5 |

g.

|   | ₹ |   | P |   |
|---|---|---|---|---|
|   |   | 4 |   |   |
|   | 1 | 1 | 9 | 0 |
| × |   |   |   | 5 |
|   | 5 | 9 | 5 | 0 |

h.

|   | ₹ |   | P |   |
|---|---|---|---|---|
|   | 3 | 1 | 3 |   |
|   | 1 | 6 | 2 | 5 |
| × |   |   |   | 6 |
|   | 9 | 7 | 5 | 0 |

#### 1. Multiply the following.

a.

|   | ₹ |   | P |    |
|---|---|---|---|----|
|   | 1 | 3 | 2 |    |
|   | 5 | 2 | 6 | 5  |
| × |   |   |   | 5  |
|   | 2 | 6 | 3 | 25 |

e. 
$$\begin{array}{r} 6 \overline{) 36} \text{ (6)} \\ - 36 \\ \hline 00 \end{array}$$

₹ 36 ÷ 6 = ₹ 6

f. 
$$\begin{array}{r} 8 \overline{) 56} \text{ (7)} \\ - 56 \\ \hline 00 \end{array}$$

₹ 56 ÷ 8 = ₹ 7

g. 
$$\begin{array}{r} 3 \overline{) 27} \text{ (9)} \\ - 27 \\ \hline 00 \end{array}$$

₹ 27 ÷ 3 = ₹ 9

h. 
$$\begin{array}{r} 7 \overline{) 49} \text{ (7)} \\ - 49 \\ \hline 00 \end{array}$$

₹ 49 ÷ 7 = ₹ 7

i. 
$$\begin{array}{r} 8 \overline{) 64} \text{ (8)} \\ - 64 \\ \hline 00 \end{array}$$

₹ 64 ÷ 8 = ₹ 8

j. 
$$\begin{array}{r} 9 \overline{) 72} \text{ (8)} \\ - 72 \\ \hline 00 \end{array}$$

₹ 72 ÷ 9 = ₹ 8

k. 
$$\begin{array}{r} 4 \overline{) 16} \text{ (4)} \\ - 16 \\ \hline 00 \end{array}$$

₹ 16 ÷ 4 = ₹ 4

l. 
$$\begin{array}{r} 5 \overline{) 45} \text{ (9)} \\ - 45 \\ \hline 00 \end{array}$$

₹ 45 ÷ 5 = ₹ 9

## 2. Divide the following in your notebook.

a. 
$$\begin{array}{r} 3 \overline{) 114} \text{ (38)} \\ - 9 \\ \hline 24 \\ - 24 \\ \hline 00 \end{array}$$

₹ 114 ÷ 3 = ₹ 38

b. 
$$\begin{array}{r} 5 \overline{) 135} \text{ (27)} \\ - 10 \\ \hline 35 \\ - 35 \\ \hline 00 \end{array}$$

₹ 135 ÷ 5 = ₹ 27

c. 
$$\begin{array}{r} 5 \overline{) 140} \text{ (28)} \\ - 10 \\ \hline 40 \\ - 40 \\ \hline 00 \end{array}$$

₹ 140 ÷ 5 = ₹ 28

d. 
$$\begin{array}{r} 5 \overline{) 325} \text{ (65)} \\ - 30 \\ \hline 25 \\ - 25 \\ \hline 00 \end{array}$$

₹ 325 ÷ 5 = ₹ 65

e. 
$$\begin{array}{r} 8 \overline{) 720} \text{ (90)} \\ - 72 \\ \hline 00 \end{array}$$

₹ 720 ÷ 8 = ₹ 90

f. 
$$\begin{array}{r} 10 \overline{) 650} \text{ (65)} \\ - 60 \\ \hline 50 \\ - 50 \\ \hline 00 \end{array}$$

₹ 650 ÷ 10 = ₹ 65

g. 
$$\begin{array}{r} 2 \overline{) 432} \text{ (216)} \\ - 4 \\ \hline 03 \\ - 02 \\ \hline 12 \\ - 12 \\ \hline 00 \end{array}$$

₹ 432 ÷ 2 = ₹ 216

h. 
$$\begin{array}{r} 11 \overline{) 242} \text{ (22)} \\ - 22 \\ \hline 22 \\ - 22 \\ \hline 00 \end{array}$$

₹ 242 ÷ 11 = ₹ 22

i. 
$$\begin{array}{r} 5 \overline{) 475} \text{ (95)} \\ - 45 \\ \hline 25 \\ - 25 \\ \hline 00 \end{array}$$

₹ 475 ÷

$$\begin{array}{r} \text{j.} \quad 6 \overline{)138} \begin{array}{l} 23 \\ - 12 \\ \hline 18 \\ - 18 \\ \hline 00 \end{array} \end{array}$$

$$₹ 138 \div 6 = ₹ 23$$

$$\begin{array}{r} \text{k.} \quad 11 \overline{)286} \begin{array}{l} 26 \\ - 22 \\ \hline 66 \\ - 66 \\ \hline 00 \end{array} \end{array}$$

$$₹ 286 \div 11 = ₹ 26$$

$$\begin{array}{r} \text{l.} \quad 3 \overline{)333} \begin{array}{l} 111 \\ - 3 \\ \hline 03 \\ - 03 \\ \hline 03 \\ - 03 \\ \hline 00 \end{array} \end{array}$$

$$₹ 333 \div 3 = ₹ 111$$

### Exercise 15 G

1. Use the information given in the above example of previous page prepare the following bill.

| S.No. | Item Name     | Price         | Quantity  | Amount                    |
|-------|---------------|---------------|-----------|---------------------------|
| 1.    | Tomato        | 20.25         | 2 kg      | $20.25 \times 2 = 40.50$  |
| 2.    | Oil           | 90.25         | 2 litres  | $90.25 \times 2 = 180.50$ |
| 3.    | Pencils       | 15 per packet | 5 packets | $15 \times 5 = 75$        |
| 4.    | T-shirt       | 120           | 1         | $120 \times 1 = 120$      |
|       | Total Amount= |               |           | 416.00                    |

### Word Problems

1. Solve the following word problems.

- a. Money spent by Ashish =  
 Money spent by Rohan =  
 Money spent by them together =  
 They spent ₹ 271.25 together.

| ₹ | p |
|---|---|
| 1 | 5 |
| 1 | 2 |
| 2 | 7 |

- b. Price of a plate =  
 Price of a bowl =

| ₹ | P  |
|---|----|
| 6 | 13 |
| 3 | 7  |
| 3 | 6  |

Price spent on plate is ₹ 36.00 more costlier than price of a bowls.

- c. Money earned by Mohan =  
 Money spent by Mohan =  
 Money saved by Mohan =  
 Mohan saved ₹ 100 on that day.

| ₹ | p |
|---|---|
| 2 | 5 |
| 1 | 5 |
| 1 | 0 |

d.

|   | ₹ |    | p |   |
|---|---|----|---|---|
|   | 1 | 1  |   |   |
|   | 5 | 5  | 7 | 5 |
|   | 6 | 0  | 2 | 5 |
| + | 2 | 3  | 7 | 5 |
|   | 1 | 39 | 7 | 5 |

₹ 139.75

e. Shweta collected money on first day =

Shweta collected money on second day =

Amount collected by shweta =

|   | ₹ |   | p |   |
|---|---|---|---|---|
|   | 4 | 5 | 0 | 5 |
| + | 3 | 2 | 0 | 7 |
|   | 7 | 7 | 1 | 2 |

f. Tuition fee =

Price of Geometry box =

Price of a pen =

Naidu require ₹ 587.50 to buy all.

|   | ₹ |   | p |   |
|---|---|---|---|---|
|   | 5 | 0 | 0 | 0 |
|   |   | 6 | 8 | 7 |
| + |   | 1 | 8 | 7 |
|   | 5 | 8 | 7 | 5 |

## Word Problems

### Based on Multiplication and Division

#### 1. Solve the following word problems.

a. Cost of a note book.

Sheetal bought 5 notebooks

|   | ₹ |   |
|---|---|---|
|   | 2 |   |
|   | 1 | 5 |
| × |   | 5 |
|   | 7 | 5 |

Cost of a pencil

Sheetal bought 2 pencils

|   | ₹ |
|---|---|
|   | 2 |
| × | 2 |
|   | 4 |

Total money sheetal pay

= ₹ 75 + ₹ 4

= ₹ 79

b. Cost of 10 sketch pens

Cost of 1 sketch pen

The cost of 1 sketch pen is 16.

= ₹ 60

= 60 ÷ 10

$$\begin{array}{r} 10 \overline{) 60} \quad 6 \\ - 60 \\ \hline 00 \end{array}$$

c. Cost of 5 notes

Cost of 2 notes

Total amount

|   |   |   |   |   |
|---|---|---|---|---|
| = |   | ₹ |   |   |
|   |   | 1 | 0 | 0 |
| = | + |   | 5 | 0 |
|   |   | 1 | 5 | 0 |

d. Cost of a flower

Number of flower

Cost of 10 flowers.

₹ 75 is the cost of 10 flowers.

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| = |   | ₹ |   | p |   |
|   |   |   | 7 | 5 | 0 |
| = | × |   |   | 1 | 0 |
|   |   |   | 0 | 0 | 0 |
|   | + | 7 | 5 | 0 | × |
|   |   | 7 | 5 | 0 | 0 |

e. Cost of 5 dress

Cost of a dress

The cost of a dress is ₹ 70.

|   |           |   |   |      |   |    |
|---|-----------|---|---|------|---|----|
| = | ₹ 350     | 5 | ) | 350  | ( | 70 |
| = | ₹ 350 ÷ 5 |   |   | - 35 |   |    |
|   |           |   |   | 00   |   |    |

f. Cost of a geometry box

Number of geometry box

Cost of 70 geometry box

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| = |   | ₹ |   | p |   |
|   |   | 5 | 3 |   |   |
| = | × | 1 | 8 | 5 | 0 |
|   |   |   |   |   | 7 |
| = |   | 1 | 2 | 9 | 5 |

g. Cost of a T-shirt

Number of T-shirts

Cost of a T-shirts

∴ ₹ 2475 is the cost of 9 T-shirts.

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| = |   | ₹ |   | p |   |
|   |   | 5 | 3 |   |   |
| = | × | 2 | 7 | 5 | 0 |
|   |   |   |   |   | 9 |
| = |   | 2 | 4 | 7 | 5 |

## HOTS

### 1. Add 36 rupees 45 paise and 50 rupees 75 paise

a. Convert money into dot not option and figures.

₹ 70.50 and ₹ 22.65

Therefore, the sum is ₹ 93.15.

Or 93 rupees 15 paise

|  |   |   |   |   |   |
|--|---|---|---|---|---|
|  |   | ₹ |   | p |   |
|  |   |   | 1 |   |   |
|  |   | 7 | 0 | 5 | 0 |
|  | + | 2 | 2 | 6 | 5 |
|  |   | 9 | 3 | 1 | 5 |

b. Convert money

## MENTAL MATHS

1. How many 5-rupee coins will you get for rupees 50?

a. 10

☒

b. 15

☐

c. 20

☐

2. Which Indian currency note does not exist?

a. ₹ 10

☐

b. ₹ 20

☐

c. ₹ 40

☒

3. 580 paise = ₹ 5.80

4. Solve the following:

a. ₹ 22.75 + ₹ 35.75

= ₹ 58.50

b. ₹ 62.75 - ₹ 42.75

= ₹ 20

c. ₹ 25 × 8

= ₹ 200

d. ₹ 102 ÷ 6

= ₹ 17

# Data Handling

## Exercise 16 A

1. Use the information given in the pictograph and circle the correct answer.
  - a. How many orange leaves were collected?
    - i. 75
    - ii. 35
    - iii. 50
  - b. How many green leaves were collected?
    - i. 70
    - ii. 90
    - iii. 9
  - c. Which colours have the same number of leaves?
    - i. green and brown
    - ii. red and yellow
    - iii. red and green
  - d. Which colour of the leaves (out of brown and yellow) is more in number and by how much?
    - i. brown by 30
    - ii. yellow by 30
    - iii. both are equal
  - e. How many leaves were collected in all?
    - i. 100
    - ii. 380
    - iii. 180
2. The given pictograph shows the number of pumpkins harvested by four farmers. Use the graph to answer the following questions

Key: Each  = 50 pumpkins

- a. Who harvested the most pumpkins? Karan
- b. How many pumpkins did Jai harvest?  $5 \times 50 = 250$
- c. Who harvested 150 pumpkins? Lalit
- d. Karan harvested more pumpkins than Gaurav. (True/False) True
- e. How many pumpkins are harvested by Jai and Lalit together?  $250 + 150 = 400$
- f. Give a suitable title for the pictograph. Forming of pumpkins
3. Draw a pictograph to show the following information with the help of the given symbol.

A group of people were asked to name their favourite car.

| Car              | Santro | Alto | Jazz | Duster | Scorpio |
|------------------|--------|------|------|--------|---------|
| Number of people | 20     | 20   | 25   | 15     | 30      |

| Favourite car | People (Each  represents 5 people)                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Santro        |                                                                                                                                                                         |
| Alto          |                                                                                                                                                                         |
| Jazz          |                                                                                        |
| Duster        |                                                                                                                                                                                                                                                          |
| Scorpio       |       |

### Exercise 16 B

1. Look at the tally chart given below. Some people were asked if they had any pet. The following chart shows their results. Look at the chart carefully and answer the following questions.

|          |                                                                                   |
|----------|-----------------------------------------------------------------------------------|
| Dog      |  |
| Goldfish |  |
| Cat      |  |
| Rabbit   |  |
| Rat      |  |

- How many people have a pet dog? 0.8
- How many people have a pet goldfish? 05
- Which is the most popular pet? Dog
- How many people have a pet cat? 03
- How many people have a pet rabbit? 01
- Which is the least popular pet? Rabbit

2. Count the objects. Then write the tally marks and the number. One has been done for you.

| Objects                                                                             | Tally Marks                                                                         | Number |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|
|  |  | 8      |
|  |  | 7      |
|  |  | 9      |
|  |  | 5      |
|  |  | 6      |

### Exercise 16 C

1. The bar graph shows how Geeta spends her time on a normal day. Answer the questions based on the represented data.
- Geeta spend maximum number of hours in school.
  - Geeta spend total hours in sleeping and school =  $7 + 8$   
= 15 hours.

- c. Number of hours spent in playing = 2
- Number of hours spent in watching TV = 1
- Difference between watching tv and playing =  $2 - 1 = 1$

**2. Read the above graph and answer the following question.**

- a. Which fruit got the most votes? Banana
- b. Which fruit got the least votes? Peaches
- c. How many votes did apples get? 4
- d. How many votes did pears and apples get?  $5 + 4 = 9$
- e. How many votes did oranges get? 2
- f. How many votes did grapes get? 6