

NUMBER LAND

(Teacher Manual)

Class 1, 2 & 3

$$\Sigma f(a+b)=c$$

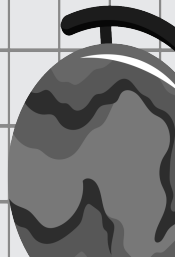
$$\Sigma f(a+b)=c$$

$$A = \frac{b+c}{d-a}$$

$$x = \sqrt{\frac{a}{c}} = \frac{HB}{a}$$

$$A = \frac{ab+c}{d}$$

$$x = \sqrt{c+25}$$



Number Land Class - 1

1.1

1. a. count = 4 b. count = 6 c. count = 8 d. 4
2. 3, 4, 2, 1
3. Do it yourself

1.2

1. Do it yourself
2. 2, 1, 0

1.3

1. $\begin{array}{r} \underline{2} \ 3 \\ \underline{4} \ 5 \\ \underline{7} \ 8 \end{array}$ $\begin{array}{r} 4 \ \underline{5} \\ 8 \ \underline{9} \\ 6 \ \underline{7} \end{array}$ $\begin{array}{r} 2 \ \underline{3} \ 4 \\ 5 \ \underline{6} \ 7 \\ 7 \ \underline{8} \ 9 \end{array}$

1.4

1. $4 \geq 1$ $3 \leq 4$ $6 = 6$ $9 \geq 8$

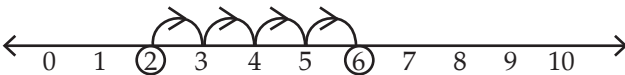
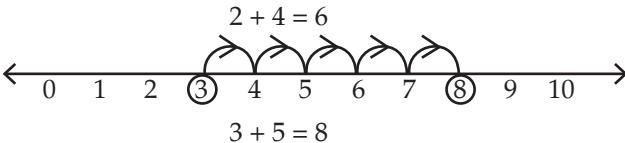
1.5

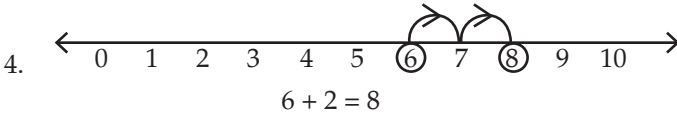
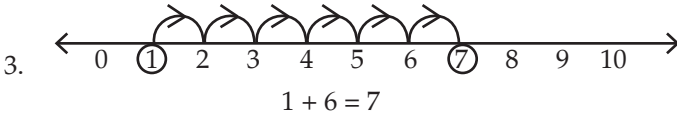
1. Ascending order = 4, 6, 7, 8, 9
 = 2, 3, 4, 5, 7
 = 1, 2, 5, 7, 8
 = 2, 3, 4, 6, 8
 Descending = 8, 6, 5, 2, 1
 = 9, 8, 6, 5, 4
 = 9, 8, 5, 4, 3
 = 7, 5, 4, 2, 1

2.1

1. $2 + 3 = 5$ $3 + 3 = 6$ $5 + 3 = 8$
2. 7, 8, 9 4, 6, 5

2.2

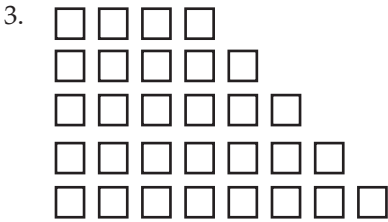
1. 
2. 



2.3

1. 8 9 4 6
6 5 8 9

2. 3, 6, 8
1, 3, 7



2.4

1.
$$\begin{array}{r} 2 \quad || \\ + 2 \quad || \\ \hline 4 \end{array}$$

$$\begin{array}{r} 5 \quad |||| \\ + 3 \quad ||| \\ \hline 8 \end{array}$$

$$\begin{array}{r} 2 \quad ||| \\ + 3 \quad ||| \\ \hline 5 \end{array}$$

$$\begin{array}{r} 1 \quad | \\ + 5 \quad |||| \\ \hline 6 \end{array}$$
2.
$$\begin{array}{r} 5 \quad |||| \\ + 4 \quad ||| \\ \hline 9 \end{array}$$

$$\begin{array}{r} 2 \quad || \\ + 3 \quad ||| \\ \hline 5 \end{array}$$

$$\begin{array}{r} 6 \quad |||| \\ + 1 \quad | \\ \hline 7 \end{array}$$

$$\begin{array}{r} 2 \quad || \\ + 7 \quad ||||| \\ \hline 9 \end{array}$$

2.5

1. $3 + 4 = 7$
There are 7 books in all
2. $5 + 5 = 10$
There are 10 watermelon pieces in all with Kapil
3. $1 + 2 = 3$, There are 3 kites in all
4. $4 + 3 = 7$
There are 7 kids playing in the park

2.6

1. $9 - 3 = 6$ $8 - 3 = 5$ $9 - 4 = 5$
2. $8 - 7 = 1$ $6 - 5 = 1$ $6 - 2 = 4$

|||||

$8 - 3 = 5$

|||||

$9 - 6 = 3$

|||||

||||

$5 - 5 = 0$

||||

$5 - 4 = 1$

||||

||||

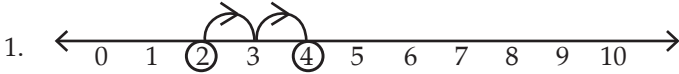
$4 - 0 = 4$

||||

$7 - 2 = 5$

|||||

2.7



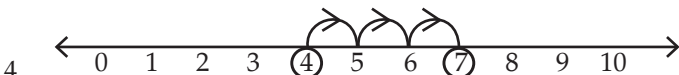
$4 - 2 = 2$



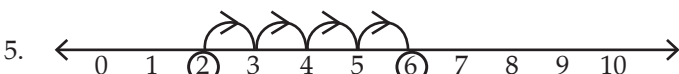
$8 - 5 = 3$



$9 - 6 = 3$



$7 - 3 = 4$



$6 - 4 = 2$

2.8

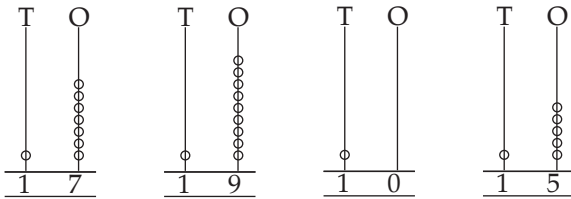
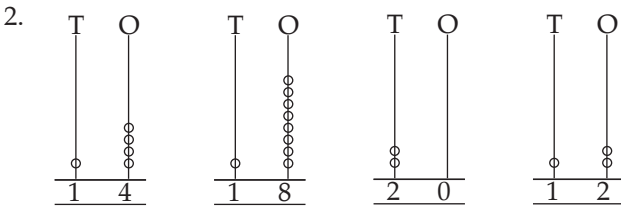
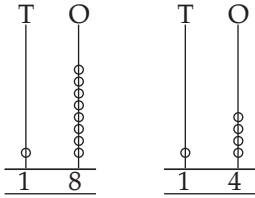
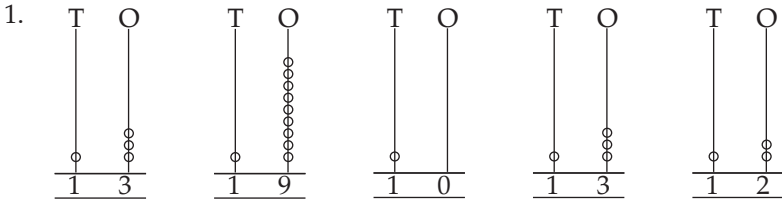
1.	9	7	4	7
	$\frac{-3}{\underline{6}}$	$\frac{-2}{\underline{5}}$	$\frac{-3}{\underline{1}}$	$\frac{-4}{\underline{3}}$

	5	9	5
	$\frac{-2}{\underline{6}}$	$\frac{-1}{\underline{8}}$	$\frac{-5}{\underline{0}}$

3.1

- 11 15
13 18
12 20
16
- 14, 15, 17, 18

3.2



3.3

- 20 and 8 = 28

30 and 6 = 36

40 and 9 = 49

50 = 50
- | | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2 | 5 | 2 | 6 | 2 | 9 | 3 | 6 |
| 3 | 9 | 4 | 7 | 4 | 8 | 4 | 9 |

3.4

- 3 tens and 6 ones = 30 + 6

- 4 tens and 7 ones = $40 + 7$
 2 tens + 8 ones = $20 + 8$
 4 tens + 9 ones = $40 + 9$
 5 tens + 0 ones = $50 + 0$

3.5

- 36, 48, 50
27, 35, 22
- Twenty - five, fifty, Twenty-nine, Thirty-four,
Thirty-nine, forty-two
- Twenty-four, Thirty-six, Forty-nine

3.6

- 24 25 32 33 27 28
36 37 14 15 49 50
42 43 44 28 29 30 30 31 32
- 1 2 3 4 5 6 7 8 9 10
11 12 13 14 15 16 17 18 19 20
21 22 23 24 25 26 27 28 29 30
31 32 33 34 35 36 37 38 39 40
41 42 43 44 45 46 47 48 49 50

3.7

- 17 > 12 24 = 24 31 > 29
31 < 43 38 < 48 42 > 40

3.8

- 9, 10, 11, 18, 19
2, 20, 30, 34, 42
15, 19, 21, 30, 43
- 50, 47, 27, 20, 17
45, 44, 38, 23, 14
40, 36, 22, 20, 19

4.1

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

4.2

$$\begin{array}{r} \text{T O} \\ 21 \\ + 28 \\ \hline 39 \end{array}$$

There are
49 fruits
in all.

$$\begin{array}{r} \text{T O} \\ 22 \\ + 26 \\ \hline 48 \end{array}$$

There are
48 people
in all.

$$\begin{array}{r} \text{T O} \\ 16 \\ + 13 \\ \hline 29 \end{array}$$

There are
29 animals
in all.

4.3

$$\begin{array}{r} 1. \quad \begin{array}{r} 36 \\ - 2 \\ \hline 34 \end{array} \quad \begin{array}{r} 34 \\ - 2 \\ \hline 32 \end{array} \quad \begin{array}{r} 47 \\ - 4 \\ \hline 43 \end{array} \quad \begin{array}{r} 35 \\ - 4 \\ \hline 31 \end{array} \quad \begin{array}{r} 49 \\ - 6 \\ \hline 43 \end{array} \\ \\ \begin{array}{r} 50 \\ - 40 \\ \hline 10 \end{array} \quad \begin{array}{r} 48 \\ - 32 \\ \hline 16 \end{array} \quad \begin{array}{r} 43 \\ - 13 \\ \hline 30 \end{array} \quad \begin{array}{r} 39 \\ - 34 \\ \hline 05 \end{array} \quad \begin{array}{r} 25 \\ - 14 \\ \hline 11 \end{array} \end{array}$$

4.4

$$\begin{array}{r} \text{T O} \\ 49 \\ - 33 \\ \hline 16 \end{array}$$

There are 16
Hindi books
in all.

$$\begin{array}{r} \text{T O} \\ 50 \\ - 20 \\ \hline 30 \end{array}$$

There are
30 apples
in basket.

$$\begin{array}{r} \text{T O} \\ 45 \\ - 15 \\ \hline 30 \end{array}$$

There are 30 mangoes
in good condition in
the box.

5.1

1. 64, 65, 66, 67, 68, 69, 70
70, 71, 72, 73, 74
84, 85, 86, 87, 88, 89, 90

2. 54, 69, 65, 74, 77
89, 57, 70, 67, 55, 99, 100

3. 85 = Eighty-five 94 = Ninety-four 61 = Sixty-one
97 = Ninety-seven 77 = Seventy-seven
70 = Seventy 100 = One Hundred
4. 76, 100, 54, 82, 99, 98

5.2

1. Number	Tens and Ones	Expanded Form
85	8 tens and 5 ones	$80 + 5$
65	6 tens and 5 ones	$60 + 5$
87	8 tens and 7 ones	$80 + 7$
99	9 tens and 9 ones	$90 + 9$
70	7 tens and 0 ones	$70 + 0$

5.3

1. $87 > 72$, $81 > 65$, $61 > 59$
 $92 < 99$, $98 > 88$, $99 = 99$
2. 50, 56, 57, 58, 89
54, 65, 72, 79, 80
56, 60, 75, 78, 90
3. 85, 73, 64, 54, 52
95, 90, 79, 64, 57
94, 89, 72, 61, 59

6.1

- 1.
- | | | | | |
|------------|------------|------------|------------|------------|
| T O | T O | T O | T O | T O |
| 5 4 | 5 0 | 2 7 | 7 7 | 5 5 |
| + 4 4 | + 2 6 | + 7 2 | + 2 1 | + 4 1 |
| <u>9 8</u> | <u>7 6</u> | <u>9 9</u> | <u>9 8</u> | <u>9 6</u> |
| T O | T O | T O | T O | T O |
| 1 5 | 2 4 | 4 3 | 7 0 | 5 4 |
| + 5 4 | + 4 3 | + 3 1 | + 2 8 | + 1 0 |
| <u>6 9</u> | <u>6 7</u> | <u>7 4</u> | <u>9 8</u> | <u>6 4</u> |

6.2

- 1.
- | |
|------------|
| T O |
| 4 3 |
| + 2 2 |
| <u>6 5</u> |
- There are 65 children in class 1A
- 2.
- | |
|------------|
| T O |
| 6 8 |
| + 2 1 |
| <u>8 9</u> |
- There are 89 biscuits in the shop.
- 3.
- | |
|------------|
| T O |
| 4 6 |
| + 3 1 |
| <u>7 7</u> |
- There are 77 beads in all.

6.3

- 1.
- | | | | | |
|------------|------------|------------|------------|------------|
| 3 6 | 7 8 | 9 8 | 7 8 | 9 6 |
| - 2 4 | - 6 8 | - 7 5 | - 2 4 | - 4 2 |
| <u>1 2</u> | <u>1 0</u> | <u>2 3</u> | <u>5 4</u> | <u>5 4</u> |

$$\begin{array}{r} 9\ 9 \\ - 8\ 8 \\ \hline 1\ 1 \end{array} \quad \begin{array}{r} 6\ 8 \\ - 4\ 5 \\ \hline 2\ 3 \end{array} \quad \begin{array}{r} 8\ 2 \\ - 4\ 2 \\ \hline 4\ 0 \end{array} \quad \begin{array}{r} 9\ 0 \\ - 7\ 0 \\ \hline 2\ 0 \end{array} \quad \begin{array}{r} 7\ 6 \\ - 1\ 3 \\ \hline 6\ 3 \end{array}$$

6.4

1.
$$\begin{array}{r} T\ O \\ 9\ 9 \\ - 5\ 4 \\ \hline 4\ 5 \end{array}$$

Mansi left
with 45
stamps.

2.
$$\begin{array}{r} T\ O \\ 6\ 5 \\ - 4\ 3 \\ \hline 2\ 2 \end{array}$$

Mr. Sen has
22 fish left in
his tank

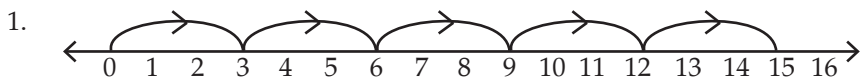
3.
$$\begin{array}{r} T\ O \\ 7\ 5 \\ - 6\ 2 \\ \hline 1\ 3 \end{array}$$

There are 13
guaves in the
basket

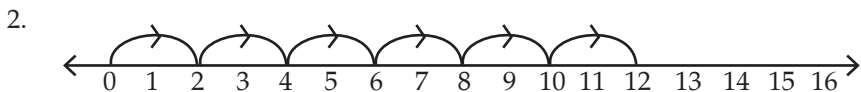
7.1

2. How many groups are there? $\underline{3}$
How many caps are there in each group? $\underline{2}$
Total no. of caps $= \underline{2} + \underline{2} + \underline{2} = \underline{3} \times \underline{2} = \underline{6}$
3. How many groups are there? $\underline{3}$
How many apples are there in each group? $\underline{5}$
Total no. of apples $= \underline{5} + \underline{5} + \underline{5} = \underline{3} \times \underline{5} = \underline{15}$
4. How many groups are there? $\underline{4}$
How many jackets are there in each group? $\underline{4}$
Total no. of jackets $= \underline{4} + \underline{4} + \underline{4} + \underline{4} = \underline{4} \times \underline{4} = \underline{16}$

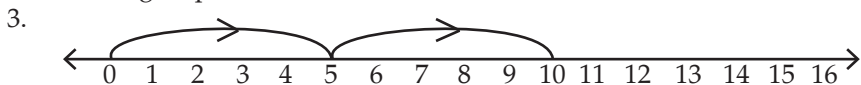
7.2



5 groups of $\underline{3} =$ or $\underline{5} \times \underline{3} = \underline{15}$



6 groups of $\underline{2} =$ or $\underline{6} \times \underline{2} = \underline{12}$



2 groups of $\underline{5} =$ or $\underline{2} \times \underline{5} = \underline{10}$

7.3

1. $1 \times 8 = 8$

4. $5 \times 9 = 45$

7. $2 \times 3 = 6$

2. $2 \times 6 = 12$

5. $10 \times 4 = 40$

8. $10 \times 9 = 90$







3. $3 \times 6 = 18$

6. $3 \times 9 = 27$





9. $5 \times 5 = 25$

8.1

- Do it yourself.
- (a) Story book and photo frame have same shape.
Shape = Rectangle
- (b) Pizza and plate have same shape.
Shape = circle.
- (c) Parking sign and sandwich have same shape.
Shape = Triangle
- (d) Chessboard and caromboard have same shape.
Shape = Square

- 3.
- | | | | | | |
|--------------|---|------|----------|--------|----------|
| a. Circle |  | side | <u>0</u> | corner | <u>0</u> |
| b. Circle |  | side | <u>0</u> | corner | <u>0</u> |
| c. Rectangle |  | side | <u>4</u> | corner | <u>4</u> |
| d. Triangle |  | side | <u>3</u> | corner | <u>3</u> |
| e. Square |  | side | <u>4</u> | corner | <u>4</u> |
| f. Rectangle |  | side | <u>4</u> | corner | <u>4</u> |

8.2


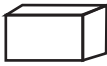

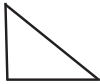

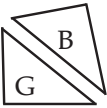








- 
 - 
 - 
 - 

- a. 5 b. 4 c. 4 d. 1 e. rectangle f. 3
- Do it yourself
- Do it yourself

8.3

- Do it yourself
- Tent, Carrot
 - Brick, Book
 - Battery and Gas Cylinder
 - Ice-cube, Rubicube
 - Clock, Ball

8.4

- 
 - 
 - 
 - 
- 
 - 
 - 
 - 
 - 
- Do it yourself
- Do it yourself

9.1

- 5
 - 8
- Watch 4 unit
Garland 6 unit
Belt 7 unit
- A 4 B 6 C 7
 - A 5 B 7 C 8

9.2

- Manya is the shortest child.
Naman is the tallest child.
Meenu is taller than Manya but shorter than Sanjay.
Sanjay is taller than Meenu and Manya.
- Do it yourself
- b d a c
 - c
 - b

9.3

1. 4 apples 2 bananas 2 oranges
2. 5 strawberries 7 strawberries
3. 4 units 6 units
4. Ball is heavier than balloon
Bag is heavier than book




9.4

1. a. Plate b. Bowl
2. a. 2 3 4 1 b. 1 2 4 3 c. 3 4 1 2 d. 4 2 3 1

10.1

1. a. Studying in the class Noon
b. having breakfast Morning
c. having dinner Night
d. Playing Evening
2. a. Morning b. Noon c. Evening d. Night

10.2

1. a.  b.  c. 
2. a. 11 o'clock b. 4 o'clock c. 7 o'clock

10.3

1. a. Saturday b. Friday c. Monday
d. Tuesday e. Thursday
2. **Yesterday** **Today** **Tomorrow**
Tuesday Wednesday Thursday
Sunday Monday Tuesday
Wednesday Thursday Friday
Monday Tuesday Wednesday
Saturday Sunday Monday
3. a. S A T U R D A Y b. T H U R S D A Y
c. T U E S D A Y d. M O N D A Y
e. W E D N E S D A Y f. F R I D A Y
g. S U N D A Y

10.4

1. January, February, March, April, May, June, July, August, September, October, November, December.
2. December 3. January
4. Last month This month Next month
 - a. october November December
 - b. July August September
 - c. January February March
 - d. May June July
 - e. December January February
 - f. March April May
 - g. August September October

11.1

1. a. ₹ 1 b. ₹ 10 c. ₹ 2 d. ₹ 5
2. a. ₹ 5 + ₹ 2 + ₹ 5 + ₹ 10 = ₹ 22
b. ₹ 10 + ₹ 2 + ₹ 1 = ₹ 13
c. ₹ 50 + ₹ 2 + ₹ 5 + ₹ 1 = ₹ 58
3. a. ₹ 90 b. ₹ 200 c. ₹ 50

11.2

1. Column A Column B
 - a. ₹ 50 ii. ₹ 50
 - b. ₹ 60 iii. ₹ 60
 - c. ₹ 10 i. ₹ 10
2. Do it yourself
3. a. ₹ 10 + ₹ 25 = ₹ 35 b. ₹ 15 + ₹ 3 = ₹ 18
c. ₹ 15 + ₹ 2 = ₹ 17 d. ₹ 2 + ₹ 25 = ₹ 27

12.1

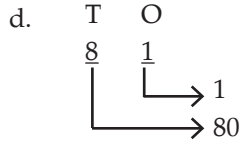
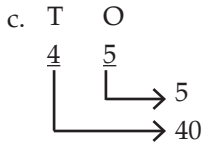
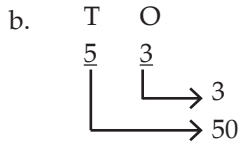
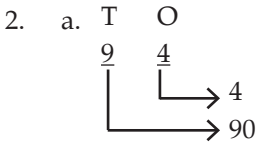
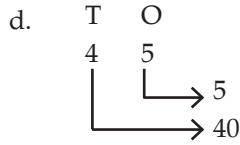
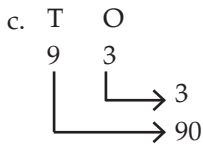
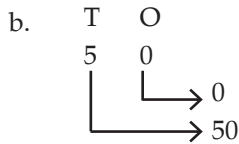
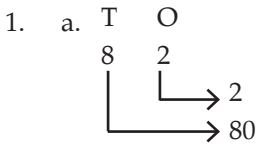
1. a. Shivam bought 8 chocolates bars
Akhil bought 5 chocolates bars
Sachin bought 6 chocolates bars
 - b. 3 c. 2 d. $8 + 5 + 6 = 19$
2. a. Litchi Juice b. $5 - 4 = 1$ c. $2 + 4 + 5 + 1 = 12$
 - d. 4 e. 1 f. 2 g. Mango juice

Number Land Class - 2

1.1

- a. 96 b. 61 c. 80 d. 73
- a. 18 b. 39 c. 52 d. 91
- a. 29 b. 46 c. 93 d. 91

1.2



- a. $45 = 4 \text{ Tens} + 5 \text{ ones} = 40 + 5$
b. $56 = 5 \text{ Tens} + 6 \text{ ones} = 50 + 6$
c. $89 = 8 \text{ Tens} + 9 \text{ ones} = 80 + 9$
d. $93 = 9 \text{ Tens} + 3 \text{ ones} = 90 + 3$
e. $78 = 7 \text{ Tens} + 8 \text{ ones} = 70 + 8$
- a. $3 \text{ Tens} + 1 \text{ ones} = 30 + 1 = 31$
b. $4 \text{ Tens} + 2 \text{ ones} = 40 + 2 = 42$
c. $8 \text{ Tens} + 9 \text{ ones} = 80 + 9 = 89$
d. $7 \text{ Tens} + 0 \text{ ones} = 70 + 0 = 70$
e. $6 \text{ Tens} + 5 \text{ ones} = 60 + 5 = 65$

5. a. $12 > 10$ b. $28 < 32$ c. $64 = 64$
 d. $92 < 93$ e. $76 > 72$ f. $51 = 51$


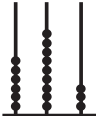
1.3

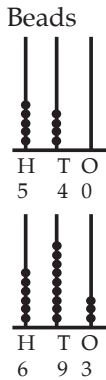
1. 1st 2nd 3rd 4th 5th 6th 7th
 first second Third Fourth Fifth Sixth Seventh
2. a. 2 even b. 7 odd c. 9 odd d. 2 even

2.1

1. a. Four hundred eighty nine
 b. Seven hundred three
 c. Six hundred ninety
 d. Five hundred fifty five
 e. Eight hundred ninety three
2. a. 879 b. 666 c. 212 d. 123
3. a. 235, 236, 237, 238
 b. 496, 497, 498, 499, 500, 501
 c. 690, 691, 692, 693
 d. 833, 834, 835, 836, 837, 838, 839, 840, 841, 842

No.	Digit	Face Value	Place Value
<u>8</u> 91	8	8	800
9 <u>3</u> 4	3	3	30
1 <u>2</u> 3	3	3	3

No.	Hundreds	Tens	ones	Expanded Form	PV.	Beads
<u>5</u> 48	5	4	8	$500 + 40 + 8$	40	
<u>6</u> 93	6	9	3	$600 + 90 + 3$	600	



2.2

1. a. 109 b. 481 c. 143 d. 906 e. 332 f. 717
2. a. 786 b. 169 c. 963 d. 680 e. 484 f. 385
3. a. $887 \geq 400$ b. $888 \equiv 888$ c. $513 \leq 589$

- d. $363 \leq 382$ e. $699 \geq 580$ f. $777 \geq 666$
4. a. Ascending order - 62, 90, 212, 368, 668, 729
Descending order - 729, 668, 368, 212, 90, 62
- b. Ascending order - 98, 198, 398, 400, 689, 824
Descending order - 824, 689, 400, 398, 198, 98
- c. Ascending order - 423, 428, 429, 432, 482, 492
Descending order - 492, 482, 432, 429, 428, 423
5. Digits Greatest no. Smallest no.
- a. 5, 1, 4 514 145
- b. 1, 8, 3 831 138
- c. 8, 6, 4 864 468
- d. 6, 4, 8 864 468
- e. 1, 9, 4 941 149
- f. 5, 0, 9 950 509

3.1

1. a.
$$\begin{array}{r} 9 \\ + 4 \\ \hline 13 \end{array}$$
 b.
$$\begin{array}{r} 7 \\ + 6 \\ \hline 13 \end{array}$$
 c.
$$\begin{array}{r} 8 \\ + 3 \\ \hline 11 \end{array}$$
2. a.
$$\begin{array}{r} 19 \\ + 6 \\ \hline 25 \end{array}$$
 b.
$$\begin{array}{r} 33 \\ + 4 \\ \hline 37 \end{array}$$
 c.
$$\begin{array}{r} 60 \\ + 5 \\ \hline 65 \end{array}$$
3. a. (i) $42 + \underline{37} = 37 + 42$ (ii) $67 + \underline{33} = 33 + \underline{67}$
(iii) 99 (iv) 60
- b. (i) $40 + \underline{0} = 49$ (ii) $0 + 45 = \underline{45}$
(iii) $\underline{0} + 78 = 78$ (iv) $23 + 0 = 23$
- c. (i) $60 + 1 = 61$ (ii) $1 + 99 = 100$
(iii) $56 + 1 = 57$ (iv) $1 + 89 = 90$

3.2

1. a.
$$\begin{array}{r} 74 \\ + 25 \\ \hline 99 \end{array}$$
 b.
$$\begin{array}{r} 65 \\ + 32 \\ \hline 97 \end{array}$$
 c.
$$\begin{array}{r} 20 \\ + 60 \\ \hline 80 \end{array}$$
- d.
$$\begin{array}{r} 87 \\ + 11 \\ \hline 98 \end{array}$$
 e.
$$\begin{array}{r} 47 \\ + 30 \\ \hline 77 \end{array}$$
 f.
$$\begin{array}{r} 72 \\ + 16 \\ \hline 88 \end{array}$$

$$\begin{array}{r} \text{g.} \quad 5 \ 2 \\ + 3 \ 5 \\ \hline 8 \ 7 \end{array}$$

$$\begin{array}{r} \text{h.} \quad 6 \ 6 \\ + 2 \ 2 \\ \hline 8 \ 8 \end{array}$$

3.3

$$\begin{array}{r} \text{1. a.} \quad \begin{array}{r} \text{H T O} \\ 4 \ 2 \ 1 \\ + 2 \ 4 \ 4 \\ \hline 6 \ 6 \ 5 \end{array} \quad \text{b.} \quad \begin{array}{r} \text{H T O} \\ 5 \ 2 \ 7 \\ + 4 \ 4 \ 2 \\ \hline 9 \ 6 \ 9 \end{array} \quad \text{c.} \quad \begin{array}{r} \text{H T O} \\ 5 \ 4 \ 2 \\ + 3 \ 1 \ 2 \\ \hline 8 \ 5 \ 4 \end{array} \end{array}$$

$$\begin{array}{r} \text{d.} \quad \begin{array}{r} \text{H T O} \\ 6 \ 4 \ 5 \\ + 2 \ 3 \ 2 \\ \hline 8 \ 7 \ 7 \end{array} \quad \text{e.} \quad \begin{array}{r} \text{H T O} \\ 8 \ 2 \ 3 \\ + 1 \ 7 \ 1 \\ \hline 9 \ 9 \ 4 \end{array} \quad \text{f.} \quad \begin{array}{r} \text{H T O} \\ 6 \ 4 \ 6 \\ + 3 \ 4 \ 3 \\ \hline 9 \ 8 \ 9 \end{array} \end{array}$$

$$\begin{array}{r} \text{g.} \quad \begin{array}{r} \text{H T O} \\ 1 \ 2 \ 2 \\ + 8 \ 3 \ 4 \\ \hline 9 \ 5 \ 6 \end{array} \quad \text{h.} \quad \begin{array}{r} \text{H T O} \\ 2 \ 2 \ 5 \\ + 4 \ 6 \ 0 \\ \hline 6 \ 8 \ 5 \end{array} \end{array}$$

3.4

$$\begin{array}{r} \text{1. a.} \quad \begin{array}{r} \text{T O} \\ 0 \ 18 \end{array} \longrightarrow \begin{array}{r} \text{T O} \\ 1 \ 8 \end{array} \\ \quad \quad \quad \downarrow \\ \quad \quad \quad 10+8 = 18 \end{array}$$

$$\begin{array}{r} \text{b.} \quad \begin{array}{r} \text{T O} \\ 3 \ 15 \end{array} \longrightarrow \begin{array}{r} \text{T O} \\ 4 \ 5 \end{array} \\ \quad \quad \quad \downarrow \quad \downarrow \\ \quad \quad \quad 30 \quad 10+5 = 15 \\ \quad \quad \quad = 30 + 10 + 5 = 40+5 \\ \quad \quad \quad = 45 \end{array}$$

$$\begin{array}{r} \text{c.} \quad \begin{array}{r} \text{T O} \\ 20 \ 17 \end{array} \longrightarrow \begin{array}{r} \text{T O} \\ 3 \ 7 \end{array} \\ \quad \quad \quad \downarrow \quad \downarrow \\ \quad \quad \quad 20 + 10+7 = 17 \\ \quad \quad \quad = 20 + 10 + 7 = 30+7 = 37 \end{array}$$

- d. $\begin{array}{r} \text{T} \quad \text{O} \\ 6 \quad 18 \end{array} \longrightarrow \begin{array}{r} \text{T} \quad \text{O} \\ 7 \quad 8 \end{array}$
 $\begin{array}{r} \downarrow \quad \downarrow \\ 60 + 10+8 = 18 \\ = 60 + 10 + 8 = 70+8 = 78 \end{array}$
- e. $\begin{array}{r} \text{T} \quad \text{O} \\ 7 \quad 23 \end{array} \longrightarrow \begin{array}{r} \text{T} \quad \text{O} \\ 9 \quad 3 \end{array}$
 $\begin{array}{r} \downarrow \quad \downarrow \\ 70 + 20+3 = 23 \\ = 70 + 20 + 3 = 90+3 = 93 \end{array}$
- f. $\begin{array}{r} \text{T} \quad \text{O} \\ 5 \quad 10 \end{array} \longrightarrow \begin{array}{r} \text{T} \quad \text{O} \\ 6 \quad 0 \end{array}$
 $\begin{array}{r} \downarrow \quad \downarrow \\ 50 + 10 = 60 \\ = 50 + 10 = 60 \end{array}$

3.5

1. a. $\begin{array}{r} \text{T} \textcircled{1} \quad \text{O} \\ 4 \quad 8 \\ + 4 \quad 7 \\ \hline 9 \quad 5 \end{array}$ b. $\begin{array}{r} \text{T} \textcircled{1} \quad \text{O} \\ 5 \quad 9 \\ + 3 \quad 4 \\ \hline 9 \quad 3 \end{array}$ c. $\begin{array}{r} \text{T} \textcircled{1} \quad \text{O} \\ 4 \quad 7 \\ + 4 \quad 6 \\ \hline 9 \quad 3 \end{array}$ d. $\begin{array}{r} \text{T} \textcircled{1} \quad \text{O} \\ 3 \quad 8 \\ + 5 \quad 6 \\ \hline 9 \quad 4 \end{array}$
- e. $\begin{array}{r} \text{T} \textcircled{1} \quad \text{O} \\ 3 \quad 8 \\ + 4 \quad 3 \\ \hline 8 \quad 1 \end{array}$ f. $\begin{array}{r} \text{T} \textcircled{1} \quad \text{O} \\ 6 \quad 6 \\ + 2 \quad 9 \\ \hline 9 \quad 5 \end{array}$ g. $\begin{array}{r} \text{T} \textcircled{1} \quad \text{O} \\ 6 \quad 7 \\ + 1 \quad 5 \\ \hline 8 \quad 2 \end{array}$ h. $\begin{array}{r} \text{T} \textcircled{1} \quad \text{O} \\ 7 \quad 2 \\ + 1 \quad 9 \\ \hline 9 \quad 1 \end{array}$

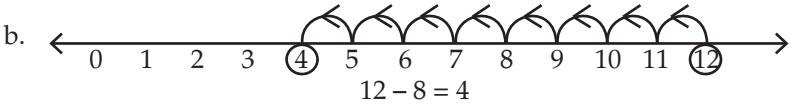
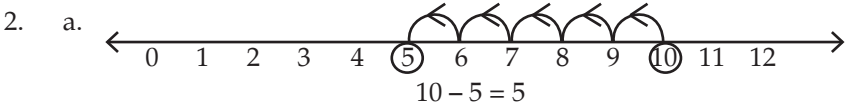
3.6

1. a. $\begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 3 \textcircled{1} \quad 3 \textcircled{1} \quad 6 \\ + 1 \quad 8 \quad 4 \\ \hline 5 \quad 2 \quad 0 \end{array}$ b. $\begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 2 \textcircled{1} \quad 7 \textcircled{1} \quad 3 \\ + 5 \quad 4 \quad 7 \\ \hline 8 \quad 2 \quad 0 \end{array}$ c. $\begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 3 \textcircled{1} \quad 3 \textcircled{1} \quad 5 \\ + 3 \quad 7 \quad 5 \\ \hline 7 \quad 1 \quad 0 \end{array}$ d. $\begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 7 \textcircled{1} \quad 8 \textcircled{1} \quad 8 \\ + 1 \quad 3 \quad 4 \\ \hline 9 \quad 2 \quad 2 \end{array}$
- e. $\begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 5 \quad 5 \textcircled{1} \quad 7 \\ + 4 \quad 2 \quad 4 \\ \hline 9 \quad 8 \quad 1 \end{array}$ f. $\begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 4 \textcircled{1} \quad 3 \textcircled{1} \quad 8 \\ + 2 \quad 8 \quad 3 \\ \hline 7 \quad 2 \quad 1 \end{array}$ g. $\begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 2 \textcircled{1} \quad 7 \textcircled{1} \quad 6 \\ + 6 \quad 5 \quad 7 \\ \hline 9 \quad 3 \quad 3 \end{array}$ h. $\begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 6 \textcircled{1} \quad 0 \textcircled{1} \quad 9 \\ + 2 \quad 9 \quad 9 \\ \hline 9 \quad 0 \quad 8 \end{array}$

2. a. H T O 3 3 5 + 3 4 2 <u> </u> 6 7 7	b. H T O 4 ^① 5 ^① 7 + 4 5 6 <u> </u> 9 1 3	c. H T O 3 ^① 5 7 + 5 9 0 <u> </u> 9 4 7
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4.1

1. a. 7 - 3 <u> </u> 4	b. 9 - 4 <u> </u> 5	c. 8 - 3 <u> </u> 5
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4.2

1. a. $47 - 6 = 41$	b. $96 - 4 = 92$	c. $73 - 3 = 70$
d. 64	e. 53	f. 81

4.3

1. a. $0 - 0 = 0$	b. $5 - 0 = 5$	c. $8 - 8 = 0$
d. $8 - 0 = 8$	e. $10 - 1 = 9$	

4.4

1. a. T O 4 9 - 2 3 <u> </u> 2 6	b. T O 3 8 - 2 2 <u> </u> 1 6	c. T O 5 8 - 4 6 <u> </u> 1 2	d. T O 5 0 - 2 0 <u> </u> 3 0
e. T O 7 8 - 3 1 <u> </u> 4 7	f. T O 6 5 - 2 4 <u> </u> 4 1	g. T O 8 5 - 1 4 <u> </u> 7 1	h. T O 7 6 - 2 6 <u> </u> 5 0

4.5

1. a.
$$\begin{array}{r} \text{T} \quad \text{O} \\ 4 \quad 8 \\ \hline 40+8 \end{array} \longrightarrow \begin{array}{r} \text{T} \quad \text{O} \\ \underline{3} \quad \underline{18} \\ 30+10+8 = 48 \end{array}$$
- b.
$$\begin{array}{r} \text{T} \quad \text{O} \\ 9 \quad 2 \\ \hline 90+2 \end{array} \longrightarrow \begin{array}{r} \text{T} \quad \text{O} \\ 8 \quad \underline{12} \\ 80+10+2 = 92 \end{array}$$
- c.
$$\begin{array}{r} \text{T} \quad \text{O} \\ 6 \quad 0 \\ \hline 60+0 \end{array} \longrightarrow \begin{array}{r} \text{T} \quad \text{O} \\ 5 \quad \underline{10} \\ 50+10+0 = 60 \end{array}$$
- d.
$$\begin{array}{r} \text{T} \quad \text{O} \\ 9 \quad 5 \\ \hline 90+5 \end{array} \longrightarrow \begin{array}{r} \text{T} \quad \text{O} \\ \underline{8} \quad \underline{15} \\ 80+10+5 = 95 \end{array}$$

4.6

1. a.
$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 9 \quad 7 \quad 2 \\ - 8 \quad 6 \quad 1 \\ \hline \underline{1 \quad 1 \quad 1} \end{array}$$
- b.
$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 3 \quad 4 \quad 2 \\ - 2 \quad 2 \quad 1 \\ \hline \underline{1 \quad 2 \quad 1} \end{array}$$
- c.
$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 2 \quad 7 \quad 9 \\ - 1 \quad 5 \quad 9 \\ \hline \underline{1 \quad 2 \quad 0} \end{array}$$
- d.
$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 9 \quad 9 \quad 9 \\ - 8 \quad 4 \quad 3 \\ \hline \underline{1 \quad 5 \quad 6} \end{array}$$
- e.
$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 7 \quad 5 \quad 2 \\ - 1 \quad 0 \quad 2 \\ \hline \underline{6 \quad 5 \quad 0} \end{array}$$
- f.
$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 3 \quad 9 \quad 6 \\ - 1 \quad 4 \quad 2 \\ \hline \underline{2 \quad 5 \quad 4} \end{array}$$
- g.
$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 7 \quad 2 \quad 8 \\ - 1 \quad 2 \quad 5 \\ \hline \underline{6 \quad 0 \quad 3} \end{array}$$
- h.
$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 4 \quad 5 \quad 7 \\ - 2 \quad 4 \quad 6 \\ \hline \underline{2 \quad 1 \quad 1} \end{array}$$

4.7

1. a.
$$\begin{array}{r} \text{T} \quad \text{O} \\ \cancel{6}^5 \quad \cancel{7}^{17} \\ - 4 \quad 6 \\ \hline \underline{1 \quad 9} \end{array}$$
- b.
$$\begin{array}{r} \text{T} \quad \text{O} \\ \cancel{8}^7 \quad \cancel{8}^{18} \\ - 3 \quad 9 \\ \hline \underline{4 \quad 9} \end{array}$$
- c.
$$\begin{array}{r} \text{T} \quad \text{O} \\ \cancel{9}^8 \quad \cancel{3}^{13} \\ - 4 \quad 7 \\ \hline \underline{4 \quad 6} \end{array}$$
- d.
$$\begin{array}{r} \text{T} \quad \text{O} \\ \cancel{6}^5 \quad \cancel{3}^{13} \\ - 3 \quad 6 \\ \hline \underline{2 \quad 7} \end{array}$$
- e.
$$\begin{array}{r} \text{T} \quad \text{O} \\ \cancel{5}^4 \quad \cancel{2}^{12} \\ - 3 \quad 8 \\ \hline \underline{1 \quad 4} \end{array}$$
- f.
$$\begin{array}{r} \text{T} \quad \text{O} \\ \cancel{6}^5 \quad \cancel{2}^{12} \\ - 4 \quad 9 \\ \hline \underline{1 \quad 3} \end{array}$$
- g.
$$\begin{array}{r} \text{T} \quad \text{O} \\ \cancel{9}^8 \quad \cancel{0}^{10} \\ - 3 \quad 8 \\ \hline \underline{5 \quad 2} \end{array}$$
- h.
$$\begin{array}{r} \text{T} \quad \text{O} \\ \cancel{5}^4 \quad \cancel{3}^{13} \\ - 2 \quad 7 \\ \hline \underline{2 \quad 6} \end{array}$$

4.8

1. a.
$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ \cancel{4}^3 \quad \cancel{1}^{10} \quad \cancel{5}^{15} \\ - 2 \quad 5 \quad 6 \\ \hline 1 \quad 5 \quad 9 \end{array}$$
- b.
$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ \cancel{4}^3 \quad \cancel{8}^{17} \quad \cancel{1}^{11} \\ - 1 \quad 8 \quad 6 \\ \hline 2 \quad 9 \quad 5 \end{array}$$
- c.
$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ \cancel{5}^4 \quad \cancel{2}^{11} \quad \cancel{4}^{14} \\ - 3 \quad 6 \quad 6 \\ \hline 1 \quad 5 \quad 8 \end{array}$$
- d.
$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ \cancel{6}^5 \quad \cancel{3}^{12} \quad \cancel{4}^{14} \\ - 1 \quad 7 \quad 6 \\ \hline 4 \quad 5 \quad 8 \end{array}$$
- e.
$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ \cancel{9}^8 \quad \cancel{3}^{13} \quad 9 \\ - 5 \quad 8 \quad 8 \\ \hline 3 \quad 5 \quad 1 \end{array}$$
- f.
$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ \cancel{8}^7 \quad \cancel{5}^{15} \quad 5 \\ - 5 \quad 9 \quad 5 \\ \hline 2 \quad 6 \quad 0 \end{array}$$
- g.
$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ \cancel{5}^4 \quad \cancel{3}^{13} \quad 7 \\ - 3 \quad 5 \quad 2 \\ \hline 1 \quad 8 \quad 5 \end{array}$$
- h.
$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ \cancel{7}^6 \quad \cancel{5}^{15} \quad 2 \\ - 2 \quad 6 \quad 0 \\ \hline 4 \quad 9 \quad 2 \end{array}$$

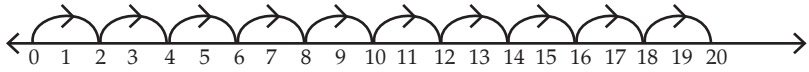

4.9

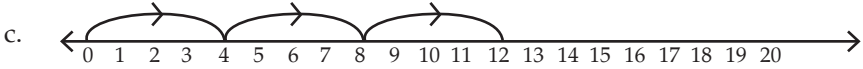
1.
$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ \cancel{2}^1 \quad \cancel{5}^{15} \quad \cancel{9} \\ - 1 \quad 6 \quad 0 \\ \hline 0 \quad 9 \quad 9 \end{array}$$
2.
$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ \cancel{4}^3 \quad \cancel{9}^9 \quad \cancel{9}^{10} \\ - 2 \quad 5 \quad 6 \\ \hline 1 \quad 4 \quad 4 \end{array}$$
3.
$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ \cancel{4}^3 \quad \cancel{4}^{13} \quad \cancel{5}^{15} \\ - \quad 9 \quad 6 \\ \hline 3 \quad 4 \quad 9 \end{array}$$
4.
$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ \cancel{2}^1 \quad \cancel{9}^{10} \quad 9 \\ - 1 \quad 4 \quad 8 \\ \hline \quad 6 \quad 1 \end{array}$$

5.1

1. a. $10 + 10 = 20$
 b. $3 + 3 + 3 + 3 + 3 + 3 = 18$
 c. $2 + 2 + 2 = 6$
 d. $4 + 4 = 8$

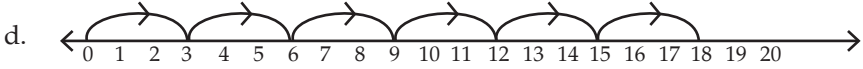
5.2

- a. 
 $10 \times 2 = 20$
 10 times 2 is 20
- b. 
 $4 \times 5 = 20$
 4 times 5 is 20



$$3 \times 4 = 12$$

3 times 4 is 12



$$6 \times 3 = 18$$

6 times 3 is 18

5.3

1. a. $2 \times 3 = 6$ b. $4 \times 5 = 20$ c. $5 \times 8 = 40$ d. $6 \times 7 = 42$
 e. $9 \times 10 = 90$ f. $10 \times 2 = 20$ g. $8 \times 9 = 72$ h. $2 \times 5 = 10$
 i. $3 \times 9 = 27$ j. $10 \times 3 = 30$ k. $6 \times 8 = 48$ l. $7 \times 7 = 49$

5.4

1. a.
$$\begin{array}{r} \text{T O} \\ 30 \\ \times 4 \\ \hline 120 \end{array}$$
 b.
$$\begin{array}{r} \text{T O} \\ 44 \\ \times 2 \\ \hline 88 \end{array}$$
 c.
$$\begin{array}{r} \text{T O} \\ 11 \\ \times 7 \\ \hline 77 \end{array}$$
 d.
$$\begin{array}{r} \text{T O} \\ 32 \\ \times 3 \\ \hline 96 \end{array}$$

 e.
$$\begin{array}{r} \text{T O} \\ 10 \\ \times 8 \\ \hline 80 \end{array}$$
 f.
$$\begin{array}{r} \text{T O} \\ 22 \\ \times 3 \\ \hline 66 \end{array}$$
 g.
$$\begin{array}{r} \text{T O} \\ 21 \\ \times 4 \\ \hline 84 \end{array}$$
 h.
$$\begin{array}{r} \text{T O} \\ 42 \\ \times 2 \\ \hline 84 \end{array}$$

2. a.
$$\begin{array}{r} \text{H T O} \\ 123 \\ \times 3 \\ \hline 369 \end{array}$$
 b.
$$\begin{array}{r} \text{H T O} \\ 423 \\ \times 2 \\ \hline 846 \end{array}$$
 c.
$$\begin{array}{r} \text{H T O} \\ 101 \\ \times 6 \\ \hline 606 \end{array}$$
 d.
$$\begin{array}{r} \text{H T O} \\ 100 \\ \times 7 \\ \hline 700 \end{array}$$

 e.
$$\begin{array}{r} \text{H T O} \\ 202 \\ \times 4 \\ \hline 808 \end{array}$$
 f.
$$\begin{array}{r} \text{H T O} \\ 444 \\ \times 2 \\ \hline 888 \end{array}$$
 g.
$$\begin{array}{r} \text{H T O} \\ 224 \\ \times 2 \\ \hline 448 \end{array}$$
 h.
$$\begin{array}{r} \text{H T O} \\ 303 \\ \times 3 \\ \hline 909 \end{array}$$

5.5

1. a.
$$\begin{array}{r} \text{T O} \\ \textcircled{2} \\ 84 \\ \times 7 \\ \hline 588 \end{array}$$
- b.
$$\begin{array}{r} \text{T O} \\ \textcircled{1} \\ 93 \\ \times 4 \\ \hline 372 \end{array}$$
- c.
$$\begin{array}{r} \text{T O} \\ \textcircled{4} \\ 56 \\ \times 8 \\ \hline 448 \end{array}$$
- d.
$$\begin{array}{r} \text{T O} \\ \textcircled{3} \\ 96 \\ \times 5 \\ \hline 480 \end{array}$$
- e.
$$\begin{array}{r} \text{T O} \\ \textcircled{2} \\ 53 \\ \times 9 \\ \hline 477 \end{array}$$
- f.
$$\begin{array}{r} \text{T O} \\ \textcircled{3} \\ 39 \\ \times 4 \\ \hline 156 \end{array}$$
2. a.
$$\begin{array}{r} \text{T O} \\ \textcircled{2} \\ 28 \\ \times 3 \\ \hline 84 \end{array}$$
- b.
$$\begin{array}{r} \text{H T O} \\ \textcircled{1} \\ 63 \\ \times 5 \\ \hline 315 \end{array}$$
- c.
$$\begin{array}{r} \text{H T O} \\ \textcircled{3} \\ 94 \\ \times 9 \\ \hline 846 \end{array}$$
- d.
$$\begin{array}{r} \text{H T O} \\ \textcircled{2} \\ 77 \\ \times 4 \\ \hline 308 \end{array}$$
- e.
$$\begin{array}{r} \text{H T O} \\ \textcircled{7} \\ 29 \\ \times 8 \\ \hline 232 \end{array}$$
- f.
$$\begin{array}{r} \text{H T O} \\ \textcircled{3} \\ 85 \\ \times 7 \\ \hline 595 \end{array}$$

5.6

1.
$$\begin{array}{r} \text{T O} \\ \textcircled{1} \\ 82 \\ \times 9 \\ \hline 738 \end{array}$$
2.
$$\begin{array}{r} \text{H T O} \\ \textcircled{3} \textcircled{3} \\ 198 \\ \times 4 \\ \hline 792 \end{array}$$

6.1

1. a. $12 \div 2 = 6$ b. $6 \div 2 = 3$

6.2

1. a. Total no. of books = 18
 Total no. of shelves = 3
 Repeated subtraction fact = $18 - 3 = 15$, $15 - 3 = 12$, $12 - 3 = 9$,
 $9 - 3 = 6$, $6 - 3 = 3$, $3 - 3 = 0$
 Division fact = $18 \div 3 = 6$

No. of books in each shelf = 6

b. Total no. of eggs = 30

Total no. of trays = 6

Repeated subtraction fact = $30 - 6 = 24$, $24 - 6 = 18$, $18 - 6 = 12$,
 $12 - 6 = 6$, $6 - 6 = 0$

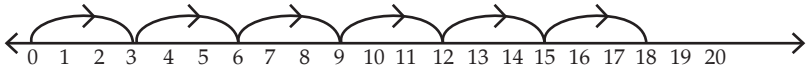
Division fact = $30 \div 6 = 5$

No. of eggs in each tray = 5

2. a. $20 \div 5 = 4$



b. $18 \div 3 = 6$



6.3

- | | | | |
|-------|---------------------------------|---------------------|-------------------|
| 1. a. | $9 \times 6 = 54$ | $54 \div 9 = 6$ | $54 \div 6 = 9$ |
| b. | $8 \times 3 = 24$ | $24 \div 8 = 3$ | $24 \div 3 = 8$ |
| c. | $8 \times 10 = 80$ | $80 \div 8 = 10$ | $80 \div 10 = 8$ |
| d. | $6 \times 3 = 18$ | $18 \div 6 = 3$ | $18 \div 3 = 6$ |
| e. | $8 \times 7 = 56$ | $56 \div 8 = 7$ | $56 \div 7 = 8$ |
| f. | $9 \times 7 = 63$ | $63 \div 9 = 7$ | $63 \div 7 = 9$ |
| 2. a. | $9 \div 1 = 9$ | b. $6 \div 6 = 1$ | c. $0 \div 8 = 0$ |
| d. | $9 \div 0 = \text{not defined}$ | e. $10 \div 10 = 1$ | |

6.4

a.
$$\begin{array}{r} 3 \overline{) 21} \text{ (7)} \\ \underline{- 21} \\ 0 \end{array}$$

Q = 7

R = 0

Verification Rule

Dividend = Divisor \times Quotient + Remainder

$21 = 3 \times 7 + 0$

$21 = 21 + 0$

$21 = 21$

LHS = RHS

Hence verified

$$\begin{array}{r} 8 \overline{) 64} \quad (8 \\ - 64 \\ \hline 0 \end{array}$$

$$Q = 8$$

$$R = 0$$

Verification Rule

Dividend = Divisor \times Quotient + Remainder

$$64 = 8 \times 8 + 0$$

$$64 = 64 + 0$$

$$64 = 64$$

$$\text{LHS} = \text{RHS}$$

Hence verified

$$\begin{array}{r} 7 \overline{) 28} \quad (4 \\ - 28 \\ \hline 0 \end{array}$$

$$Q = 4$$

$$R = 0$$

Verification Rule

Dividend = Divisor \times Quotient + Remainder

$$28 = 7 \times 4 + 0$$

$$28 = 28 + 0$$

$$28 = 28$$

$$\text{LHS} = \text{RHS}$$

Hence verified

$$\begin{array}{r} 6 \overline{) 60} \quad (10 \\ - 6 \downarrow \\ \hline 00 \\ - 0 \\ \hline 0 \end{array}$$

$$Q = 10$$

$$R = 0$$

Verification Rule

Dividend = Divisor \times Quotient + Remainder

$$60 = 6 \times 10 + 0$$

$$60 = 60 + 0$$

$$60 = 60$$

$$\text{LHS} = \text{RHS}$$

Hence verified

e.

$$\begin{array}{r} 4 \overline{) 84} (21 \\ \underline{-8 \downarrow} \\ 04 \\ \underline{- 4} \\ 0 \end{array}$$

$$Q = 21$$

$$R = 0$$

Verification Rule

$$\text{Dividend} = \text{Divisor} \times \text{Quotient} + \text{Remainder}$$

$$84 = 4 \times 21 + 0$$

$$84 = 84 + 0$$

$$84 = 84$$

$$\text{LHS} = \text{RHS}$$

Hence verified

F.

$$\begin{array}{r} 2 \overline{) 32} (16 \\ \underline{-2 \downarrow} \\ 12 \\ \underline{-12} \\ 0 \end{array}$$

$$Q = 16$$

$$R = 0$$

Verification Rule

$$\text{Dividend} = \text{Divisor} \times \text{Quotient} + \text{Remainder}$$

$$32 = 2 \times 16 + 0$$

$$32 = 32 + 0$$

$$32 = 32$$

$$\text{LHS} = \text{RHS}$$

Hence verified

g.

$$\begin{array}{r} 3 \overline{) 63} (21 \\ \underline{-6 \downarrow} \\ 03 \\ \underline{- 3} \\ 0 \end{array}$$

$$Q = 21$$

$$R = 0$$

Verification Rule

$$\text{Dividend} = \text{Divisor} \times \text{Quotient} + \text{Remainder}$$

$$63 = 3 \times 21 + 0$$

$$63 = 63 + 0$$

$$63 = 63$$

$$\text{LHS} = \text{RHS}$$

Hence verified

F.

$$\begin{array}{r} 8 \overline{) 88} \text{ (11} \\ \underline{-8 \downarrow} \\ 8 \\ \underline{- 8} \\ 0 \end{array}$$

$$Q = 11$$

$$R = 0$$

Verification Rule

$$\text{Dividend} = \text{Divisor} \times \text{Quotient} + \text{Remainder}$$

$$88 = 8 \times 11 + 0$$

$$88 = 88 + 0$$

$$88 = 88$$

$$\text{LHS} = \text{RHS}$$

Hence verified

7.1

- | | | | |
|-----------|-------------|--------------|-------------|
| a. sphere | b. cube | c. cuboid | d. cylinder |
| e. cone | f. sphere | g. cuboid | h. cone |
| i. cuboid | j. cylinder | k. rectangle | l. cuboid |
- a. cube b. cuboid c. sphere d. cylinder e. cone
- Do it yourself
- Do it yourself
- Do it yourself

7.2

- | | | | | |
|------|------|------|------|------|
| a. S | b. C | c. S | d. C | e. C |
|------|------|------|------|------|
- Do it yourself
- Do it yourself

7.3

- | | | | |
|------|------|------|------|
| a. C | b. F | c. B | d. F |
|------|------|------|------|

7.4

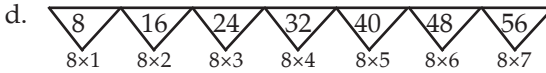
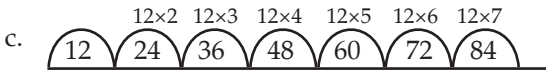
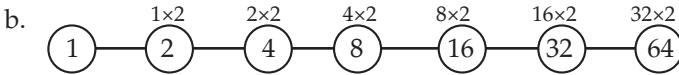
- Roll No slide Yes
 - Roll Yes slide No
 - Roll No slide Yes
 - Roll Yes slide Yes

7.5

- Sleeping lines 6 b. Sleeping lines 9
Standing lines 8 Standing lines 8
Slanting lines 2 Slanting lines 0

7.6

- Do it yourself
- a. 10, 20, 30, 40, 50, 60, 70



8.1

- Half past 3 3 : 30
 - Half Past 4 4 : 30
 - Half Past 9 9 : 30
 - Half Past 2 2 : 30
- Do it yourself

8.2

- Quarter past 12 12 : 15
 - Quarter past 2 2 : 15
 - Quarter past 5 5 : 15
 - Quarter past 8 8 : 15
- Do it yourself

8.3

- a. Quarter to 11 10 : 45
b. Quarter to 7 6 : 45
c. Quarter to 4 3 : 45
d. Quarter to 12 11 : 45
- Do it yourself

8.4

- a. Monday - Sunday b. Wednesday - Tuesday
c. Friday - Thursday d. Sunday - Saturday
- a. Wednesday b. Friday c. Saturday d. Monday
- Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday

8.5

- February - 28 days
- Name of Months with 30 days
April, June, September, November
- Name of months with 31 days
January, March, May, July, August, October, December

9.1

- a. ₹ 5 + ₹ 5 = ₹ 10
b. ₹ 10 + ₹ 10 + ₹ 10 + ₹ 10 = ₹ 40
c. ₹ 10 + ₹ 20 = ₹ 30
d. ₹ 20 + ₹ 20 + ₹ 20 = ₹ 60
e. ₹ 50 + ₹ 50 = ₹ 100
f. ₹ 100 + ₹ 100 = ₹ 200
g. ₹ 200 + ₹ 200 = ₹ 400
- Do it yourself
- a. ₹ 62 car b. ₹ 25 Ice cream cone c. ₹ 77 specacles
d. ₹ 59 sweater e. ₹ 120 bag
- Do it yourself

9.2

- a.
$$\begin{array}{r} \text{T} \quad \text{O} \\ \text{2}^{\text{①}} \quad 5 \\ + 5 \quad 5 \\ \hline 8 \quad 0 \\ \hline \text{₹ } 80 \end{array}$$
- b.
$$\begin{array}{r} \text{T} \quad \text{O} \\ \text{1}^{\text{①}} \quad 8 \\ + 1 \quad 4 \\ \hline 3 \quad 2 \\ \hline \text{₹ } 32 \end{array}$$
- c.
$$\begin{array}{r} \text{T} \quad \text{O} \\ \text{2}^{\text{①}} \quad 6 \\ + 3 \quad 4 \\ \hline 6 \quad 0 \\ \hline \text{₹ } 60 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 5 \overset{\textcircled{1}}{5} \\ + 35 \\ \hline 90 \end{array}$$

Ishita spent ₹ 90

$$\begin{array}{r} \text{T O} \\ 20 \\ + 10 \\ \hline 30 \end{array}$$

Bhavesh spent b. ₹ 30

9.3

$$\begin{array}{r} \text{T O} \\ 100 \\ - 50 \\ \hline 50 \end{array}$$

Money Mohan has ₹ 50

$$\begin{array}{r} \text{T O} \\ 50 \\ - 10 \\ \hline 40 \end{array}$$

Money left with Kapil = ₹ 40

2. He can buy max. 3 items

(a) Book = ₹ 120 Toy = ₹ 140 Bag = ₹ 240

Total = ₹ 120 + ₹ 140 + ₹ 240 = ₹ 500

$$\begin{array}{r} \text{₹ } 500 - \text{₹ } 325 \\ \begin{array}{r} 490 \\ - 325 \\ \hline 165 \end{array} \end{array}$$

Ritu will get back ₹ 175 from the shopkeeper

(c) Book + Toy + Bag + Water bottle + pen

₹ 120 + ₹ 140 + ₹ 240 + ₹ 325 + ₹ 110 = ₹ 935

10.1

- a. 15 cm b. 8 cm
- Do it yourself

10.2

- a. ✗ b. ✓ c. ✗ d. ✓ e. ✗ f. ✓

10.3

- a. 500 g b. 1 g c. 50 g d. 200 g

10.4

- a. 5 kg b. 1 kg c. 4 kg d. 8 kg
- a. 500 g b. 2 kg c. 25 kg d. 5 kg

10.5

- a. ✗ b. ✗ c. ✓ d. ✗ e. ✓ f. ✓

11.1

- Do it yourself
- a. $16 + 20 + 10 + 25 + 15 = 86$
b. $20 - 10 = 10$
c. Marigold
d. $15 - 10 = 5$
- a. Pizza b. Subay Sandwich c. 5 d. 7
- a. Books sold on Monday = 3
Books on Thursday = 6
Total books sold = 9
b. Books sold on Friday = 9
- a. (iv) b. (v) c. (vi) d. (i)
e. (ii) f. (iii)

Number Land Class - 3

1.1

- 3- digit number - 100 b. 4- digit number - 1000
 - 5- digit number - 10000
- 4- digit number - 9999 b. 5- digit number - 99999
 - 6- digit number - 999999
- $17\overline{4}5 = 40$ b. $34\overline{9}2 = 400$ c. $\overline{4}906 = 4000$
- $48\overline{7}93 = 700$ b. $\overline{7}0932 = 70,000$ c. $153\overline{7}0 = 70$
- $5652 =$ five thousand six hundred fifty two
 - $9043 =$ Nine thousand forty three
 - $7196 =$ Seven thousand one hundred ninety six
 - $8001 =$ Eight thousand one
 - $12946 =$ Twelve thousand nine hundred forty six
- 6483 b. 8005 c. 7777 d. 5069
 - 10623 f. 3003 g. 29999 h. 75031
- $2019 = 2000 + 10 + 9$ b. $5800 = 5000 + 800 + 0 + 0$
 - $7002 = 7000 + 2$ d. $6234 = 6000 + 200 + 30 + 4$
 - $7519 = 7000 + 500 + 10 + 9$
- 9332 b. 8237 c. 7707 d. 1111 e. 44444
- $\underline{8606}$
PV of $6^{\text{'s}}$ $600, 6$
Difference = $600 - 6 = 594$
- $\underline{90390}$
PV of $9^{\text{'s}}$ $90,000, 90$
Difference = $90,000 - 90 = 89,910$
- 25055
PV of $5^{\text{'s}}$ $5000, 50, 5$
Sum = $5000 + 50 + 5 = 5055$

1.2

- $5201 \leq 5209$ b. $2305 \geq 2301$ c. $1836 \equiv 1836$ d. $800 + 1 \equiv 801$
 - $625 - 1 \equiv 624$ f. $6002 \geq 6000 + 1$ g. $7000 + 700 + 8 \leq 7718$
 - $9875 > 9871$
 - Eight thousand eight hundred eighty eight ≥ 8880
- $2635, 4209, 3489, (3482), (5600), 5254$
 - $6875, (32635), 5834, 23289, (9932), 7777$
 - $5301, 5201, 5101, (33901), (5400), 5299$
 - $(31806), 1807, (1870), 1860, 1822, 1810$

3. a. 2963, 3629, 4328, 6392, 9236 b. 2849, 4892, 7365, 9284, 9824
c. 2003, 2030, 2300, 3002, 3452 d. 1669, 1699, 1702, 1873, 1969
4. a. 9305, 9035, 3986, 2150, 2045 b. 9235, 7351, 7215, 3584, 961
c. 589, 555, 444, 389, 333, 222 d. 9000, 6000, 5000, 4000, 2000
5. a. 940 b. 985 c. 8530 d. 8750 e. 6300
f. 8762 g. 6521 h. 9620
6. a. 308 b. 379 c. 469 d. 1388 e. 1002
f. 5069 g. 2008 h. 1158
7. a. Precessor - 1 Successor - 3
b. Precessor - 1000 Successor - 1002
c. Precessor - 989 Successor - 991
d. Precessor - 5998 Successor - 6000
e. Precessor - 99 Successor - 101
8. a. false b. false c. True

1.3

1. a. $IV \leq XIX$ b. $XIII \leq XV$ c. $XV \geq XIV$ d. $XXVIII \leq XXIX$
e. $XVII \geq XII$ f. $VIII \leq XIX$ g. $XXVI \geq XXV$ h. $XXXIX \leq XL$
2. a. XIII b. XV c. XVIII d. XXII
e. XXVII f. XXXIX g. XLV h. XXXVIII
i. LXIV j. LIII
3. a. 24 b. 30 c. 14 d. 18 e. 16
f. 25 g. 28 h. 29 i. 48 j. 59

1.4

1. a. (i) 60 (ii) 30 (iii) 50 (iv) 260 (v) 5240
b. (i) 400 (ii) 900 (iii) 700 (iv) 600 (v) 2300
c. (i) 1000 (ii) 4000 (iii) 5000 (iv) 6000 (v) 10,000
2. 30

Revision

1. a. 9999 b. 690 c. 100 d. 980
e. 700 f. 298 g. 9 hundreds + 5 Tens + 0 Ones
h. 222
2. 5555, 6666, 7777, 8888 3. 6026
4. a. < b. > c. > d. = e. <
5. a. 1 ten b. 1 hundred c. 1 thousand d. 10 tens
6. 1. 70 b. 600 c. 600 d. 9
e. 5000 f. 9000 g. 50 h. 90

- | | | Greatest | Smallest | | |
|-----|----|------------------------------------|--------------|----------------|----------------|
| 7. | a. | 6, 0, 4, 9 | 9640 | 4069 | |
| | b. | 7, 3, 9, 5 | 9753 | 3579 | |
| | c. | 0, 6, 9, 3 | 9630 | 3069 | |
| 8. | | 232, 432, 732, 855, 905, 956, 1859 | | | |
| 9. | | 8523, 8352, 5832, 5238, 2853, 3285 | | | |
| 10. | a. | XIX | b. XXIX | c. XL | d. XXXII |
| 11. | a. | 21 | b. 24 | c. 29 | d. 35 |
| 12. | a. | 45 — 50 | b. 183 — 180 | c. 1781 — 1780 | d. 4985 — 4990 |

2.1

1. a. sum b. Addends c. $3 + 5 = 8$ d. $0 + 5 = 0$
 e. $5 + 3 = 8$

2. a.

	Th	H	T	O
	8	3	5	4
		5	2	4
+				0
	8	8	7	8

b.

	Th	H	T	O
	7	0	1	1
		2	0	0
+	1	0	2	6
	1	0	0	3
	7	0	2	6

c.

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

d.

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

3. a.

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

b.

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

c.

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

d.

	Th	H	T	O
	5	5	4	7
+	2	3	5	2
	7	8	9	9

$$\begin{array}{r}
 \text{4. a.} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \quad \quad \quad 7 \quad 6 \quad 3 \quad 2 \\
 \quad \quad \quad \quad \quad \quad 5 \quad 4 \\
 + \quad \quad \quad 2 \quad 0 \quad 3 \\
 \hline
 \quad \quad \quad 7 \quad 8 \quad 8 \quad 9
 \end{array}$$

$$\begin{array}{r}
 \text{b.} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \quad \quad \quad 7 \quad 3 \quad 0 \quad 4 \\
 \quad \quad \quad \quad \quad 5 \quad 6 \quad 1 \\
 + \quad \quad \quad \quad \quad 3 \quad 3 \\
 \hline
 \quad \quad \quad 7 \quad 8 \quad 9 \quad 8
 \end{array}$$

$$\begin{array}{r}
 \text{c.} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \quad \quad \quad 6 \quad 1 \quad 3 \quad 3 \\
 \quad \quad \quad 2 \quad 3 \quad 4 \quad 4 \\
 + \quad \quad \quad \quad \quad 2 \quad 1 \\
 \hline
 \quad \quad \quad 8 \quad 4 \quad 9 \quad 8
 \end{array}$$

$$\begin{array}{r}
 \text{5. a.} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \quad \quad \quad 4 \quad 2 \quad 3 \quad 0 \\
 \quad \quad \quad \quad \quad 2 \quad 5 \quad 6 \\
 + \quad \quad \quad \quad \quad 1 \quad 2 \\
 \hline
 \quad \quad \quad 4 \quad 4 \quad 9 \quad 8
 \end{array}$$

$$\begin{array}{r}
 \text{b.} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \quad \quad \quad 3 \quad 4 \quad 0 \quad 1 \\
 \quad \quad \quad 1 \quad 0 \quad 3 \quad 6 \\
 + \quad \quad \quad 1 \quad 0 \quad 1 \\
 \hline
 \quad \quad \quad 4 \quad 5 \quad 9 \quad 8
 \end{array}$$

$$\begin{array}{r}
 \text{c.} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \quad \quad \quad 9 \quad 2 \quad 6 \quad 1 \\
 \quad \quad \quad \quad \quad 6 \quad 2 \quad 8 \\
 + \quad \quad \quad \quad \quad 1 \quad 0 \\
 \hline
 \quad \quad \quad 9 \quad 8 \quad 9 \quad 9
 \end{array}$$

$$\begin{array}{r}
 \text{d.} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \quad \quad \quad 4 \quad 0 \quad 1 \quad 1 \\
 \quad \quad \quad 2 \quad 0 \quad 0 \quad 0 \\
 + \quad \quad \quad 1 \quad 0 \quad 2 \quad 8 \\
 \hline
 \quad \quad \quad 7 \quad 0 \quad 3 \quad 9
 \end{array}$$

2.2

1. a. (i) Plus b. (ii) ones

$$\begin{array}{r}
 \text{2. a.} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \quad \quad \quad 6^{(1)} \quad 1 \quad 0^{(2)} \quad 7 \\
 + \quad \quad \quad \quad \quad 2 \quad 6 \\
 \hline
 \quad \quad \quad 1 \quad 9 \quad 3 \quad 8 \\
 \hline
 \quad \quad \quad 8 \quad 0 \quad 7 \quad 1
 \end{array}$$

c. (ii) Number itself d. (iii) 900

$$\begin{array}{r}
 \text{b.} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \quad \quad \quad 5^{(1)} \quad 3^{(1)} \quad 7^{(2)} \quad 8 \\
 + \quad \quad \quad 9 \quad 6 \quad 7 \\
 \hline
 \quad \quad \quad 1 \quad 0 \quad 4 \quad 5 \\
 \hline
 \quad \quad \quad 7 \quad 3 \quad 9 \quad 0
 \end{array}$$

$$\begin{array}{r}
 \text{c.} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \quad \quad \quad 4 \quad 3^{(1)} \quad 0^{(1)} \quad 9 \\
 + \quad \quad \quad \quad \quad 7 \quad 2 \\
 \hline
 \quad \quad \quad \quad \quad 9 \quad 6 \\
 \hline
 \quad \quad \quad 4 \quad 4 \quad 7 \quad 7
 \end{array}$$

$$\begin{array}{r}
 \text{d.} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \quad \quad \quad 5^{(1)} \quad 8^{(1)} \quad 7^{(2)} \quad 9 \\
 + \quad \quad \quad 4 \quad 5 \quad 6 \\
 \hline
 \quad \quad \quad \quad \quad 6 \quad 3 \quad 4 \\
 \hline
 \quad \quad \quad 6 \quad 9 \quad 6 \quad 9
 \end{array}$$

$$\begin{array}{r}
 \text{Th H T O} \\
 5^{\textcircled{1}} 5^{\textcircled{1}} 6^{\textcircled{1}} 9 \\
 + 1 8 0 4 \\
 \hline
 2 2 3 5 \\
 \hline
 9 8 0 6
 \end{array}$$

$$\begin{array}{r}
 \text{Th H T O} \\
 5^{\textcircled{1}} 6^{\textcircled{1}} 7^{\textcircled{1}} 8 \\
 + 2 9 6 5 \\
 \hline
 1 3 5 0 \\
 \hline
 9 9 9 3
 \end{array}$$

3. a.

$$\begin{array}{r}
 \text{Th H T O} \\
 4^{\textcircled{1}} 2^{\textcircled{3}} 7^{\textcircled{2}} 6 \\
 6 8 9 \\
 + 6 8 \\
 \hline
 1 2 7 5 \\
 \hline
 6 3 0 8
 \end{array}$$

b.

$$\begin{array}{r}
 \text{Th H T O} \\
 1^{\textcircled{1}} 9^{\textcircled{2}} 9^{\textcircled{3}} 8 \\
 2 1 4 6 \\
 + 9 9 \\
 \hline
 9 \\
 \hline
 4 2 5 2
 \end{array}$$

c.

$$\begin{array}{r}
 \text{Th H T O} \\
 3^{\textcircled{1}} 9^{\textcircled{2}} 6^{\textcircled{1}} 8 \\
 1 7 3 2 \\
 + 1 0 6 2 \\
 \hline
 1 4 2 \\
 \hline
 6 9 0 4
 \end{array}$$

d.

$$\begin{array}{r}
 \text{Th H T O} \\
 4^{\textcircled{1}} 2^{\textcircled{1}} 1^{\textcircled{2}} 7 \\
 1 9 3 4 \\
 + 2 4 0 7 \\
 \hline
 2 3 7 8 \\
 1 0 9 3 6 \\
 \hline
 1 0 9 3 6
 \end{array}$$

e.

$$\begin{array}{r}
 \text{Th H T O} \\
 1 0^{\textcircled{2}} 9^{\textcircled{1}} 6 \\
 + 2 3 4 6 \\
 \hline
 6 0 6 2 \\
 \hline
 9 5 0 4
 \end{array}$$

f.

$$\begin{array}{r}
 \text{Th H T O} \\
 2^{\textcircled{1}} 3^{\textcircled{1}} 0^{\textcircled{1}} 1 \\
 + 1 0 3 2 \\
 \hline
 6 8 7 \\
 \hline
 4 0 2 0
 \end{array}$$

2.3

1. a. (iv) same b. (ii) successor c. (i) addition d. (iii) 1834 + 5756
 2. a. 2346 b. 5239 c. 8375 d. 0
 e. 1066 f. 1831

2.4

1. a. 679 b. 5136 c. 2625 d. 1300
 e. 8000 f. 9900 g. 8080 h. 6000 i. 7410

2.5

1. No. of men = 4508
No. of women = 2987
No. of children = 1395
Total population in a village = 4508 + 2987 + 1395 =

$$\begin{array}{r}
 \text{Th H T O} \\
 4^{\textcircled{1}} 5^{\textcircled{1}} 0^{\textcircled{2}} 8 \\
 + 2 9 8 7 \\
 \hline
 1 3 9 5 \\
 \hline
 8 8 9 0
 \end{array}$$

Hence, total population in a village is 8890

2. No. of coconut trees = 1862
 No. of mango trees = 1078
 No. of neem trees = 978
 No. of papaya trees = 170
 Total trees in the garden = 1862 + 1078 + 978 + 170 =

$$\begin{array}{r}
 \text{Th H T O} \\
 \textcircled{2} 1 \textcircled{2} 8 \textcircled{1} 6 2 \\
 1 0 7 8 \\
 9 7 8 \\
 + 1 7 0 \\
 \hline
 4 0 8 8
 \end{array}$$

Hence, total trees in garden are 4088

3. No. of English books = 1968
 No. of Hindi books = 2056
 No. of Mathematics books = 1735
 No. of science books = 876
 No. of other subject books = 1608
 Total population of books in library = 1968 + 2056 + 1735

$$\begin{array}{r}
 + 876 + 1608 \\
 \text{Th H T O} \\
 \textcircled{3} 1 \textcircled{2} 9 \textcircled{3} 6 8 \\
 2 0 5 6 \\
 1 7 3 5 \\
 + 8 7 6 \\
 1 6 0 8 \\
 \hline
 8 2 4 3
 \end{array}$$

Hence, total no. of books in the library are 8243

4. Required number = 6897 + 2478

$$\begin{array}{r}
 \text{Th H T O} \\
 \textcircled{1} 6 \textcircled{1} 8 \textcircled{1} 9 7 \\
 + 2 4 7 8 \\
 \hline
 9 3 7 5
 \end{array}$$

5. No. of boys = 2576
 No. of girls = 1894
 Total no. of pupil in school = 2576 + 1894 =

$$\begin{array}{r}
 \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \textcircled{1}2 \quad \textcircled{1}5 \quad \textcircled{1}7 \quad 6 \\
 + \quad 1 \quad 8 \quad 9 \quad 4 \\
 \hline
 4 \quad 4 \quad 7 \quad 0
 \end{array}$$

Hence, total no. of pupils in school are 4470

6. Monthly expenditure of Mr. Verma's family = ₹ 7385
 Saving of Mrs. Verma's family = ₹ 1895
 Total monthly income = ₹ 7385 + ₹ 1895 =

$$\begin{array}{r}
 \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \textcircled{1}7 \quad \textcircled{1}3 \quad \textcircled{1}8 \quad 5 \\
 + \quad 1 \quad 8 \quad 9 \quad 5 \\
 \hline
 9 \quad 2 \quad 8 \quad 0
 \end{array}$$

Hence, total monthly income is ₹ 9280

7. Monthly spent to paid fees = ₹ 2758
 Money spent on books = ₹ 1367
 Money spent on uniform = ₹ 975
 Total money he spend = ₹ 2758 + ₹ 1367 + ₹ 975 =

$$\begin{array}{r}
 \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \textcircled{2}2 \quad \textcircled{2}7 \quad \textcircled{2}5 \quad 8 \\
 1 \quad 3 \quad 6 \quad 7 \\
 + \quad 9 \quad 7 \quad 5 \\
 \hline
 4 \quad 1 \quad 0 \quad 0
 \end{array}$$

Hence, total money he spend is ₹ 4100

8. Cost of portable T.V. = ₹ 3485
 Cost of washing machine = ₹ 2738
 Cost of transister = ₹ 847
 Total money he spend = ₹ 2758 + ₹ 1367 + ₹ 975 =

$$\begin{array}{r}
 \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \textcircled{2}3 \quad \textcircled{1}4 \quad \textcircled{2}8 \quad 5 \\
 2 \quad 7 \quad 3 \quad 8 \\
 + \quad 8 \quad 4 \quad 7 \\
 \hline
 7 \quad 0 \quad 7 \quad 0
 \end{array}$$

Hence, he had to pay in all are ₹ 7070

$$\begin{array}{r}
 9. \text{ Smaller number is} \qquad \qquad \qquad = 7948 \\
 \text{Difference between two no is} \qquad \qquad = 1876 \\
 \text{Larger number is} \qquad \qquad \qquad = \underline{9824}
 \end{array}$$

$$\begin{array}{r}
 10. \text{ No. of students in primary classes} \qquad = 5028 \\
 \text{No. of students in middle classes} \qquad \qquad = 2397 \\
 \text{No. of students in senior classes} \qquad \qquad = 1845 \\
 \text{Total strength of the school is} \qquad \qquad = 5028 + 2397 + 1845 =
 \end{array}$$

$$\begin{array}{r}
 \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \textcircled{1}5 \quad \textcircled{1}0 \quad \textcircled{2}2 \quad 8 \\
 \quad \quad 2 \quad 3 \quad 9 \quad 7 \\
 + \quad 1 \quad 8 \quad 4 \quad 5 \\
 \hline
 \quad \quad 9 \quad 2 \quad 7 \quad 0
 \end{array}$$

Hence, the total strength of the school is 9270

$$\begin{array}{r}
 11. \text{ The cost of bicycle is} \qquad \qquad \qquad = ₹ 1765 \\
 \text{The cost of moped more than bicycle} \qquad = ₹ 6356 \\
 \text{The cost of moped is} \qquad \qquad \qquad = ₹ 1765 + ₹ 6356 =
 \end{array}$$

$$\begin{array}{r}
 \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \textcircled{1}1 \quad \textcircled{1}7 \quad \textcircled{1}6 \quad 5 \\
 + \quad 6 \quad 3 \quad 5 \quad 6 \\
 \hline
 \quad \quad 8 \quad 1 \quad 2 \quad 1
 \end{array}$$

Hence, the cost of moped is ₹ 8121

$$\begin{array}{r}
 12. \text{ Eggs produced in first day} \qquad \qquad = 1639 \\
 \text{Eggs produced in second day} \qquad \qquad = 2578 \\
 \text{Eggs produced in third day} \qquad \qquad = 1456 \\
 \text{Eggs produced in fourth day} \qquad \qquad = 995 \\
 \text{Total Eggs produces in these days} \qquad = 1639 + 2578 + 1456 + 995
 \end{array}$$

$$\begin{array}{r}
 \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \textcircled{3}1 \quad \textcircled{2}6 \quad \textcircled{3}3 \quad 9 \\
 \quad \quad 2 \quad 5 \quad 7 \quad 8 \\
 \quad \quad 1 \quad 4 \quad 5 \quad 6 \\
 + \quad \quad 9 \quad 9 \quad 5 \\
 \hline
 \quad \quad 6 \quad 6 \quad 6 \quad 8
 \end{array}$$

Hence, eggs altogether produced in these days are 6668

2.6

$$\begin{array}{r}
 1. \text{ b. } 421 \xrightarrow{\text{Tens}} 420 \\
 \quad \quad 281 \xrightarrow{\text{Tens}} 220
 \end{array}$$

$$420 + 220 = 640$$

2. a. $421 \xrightarrow{\text{Hundreds}} 400$
 $218 \xrightarrow{\text{Hundreds}} 200$

$$400 + 200 = 600$$

3. b. $27 \xrightarrow{\text{Tens}} 30$
 $18 \xrightarrow{\text{Tens}} 20$

$$30 + 20 = 50$$

4. a.
$$\begin{array}{r} 567 \longrightarrow 600 \\ + 118 \longrightarrow + 100 \\ \hline 685 \qquad \qquad \qquad 700 \end{array}$$

b.
$$\begin{array}{r} 3^{\textcircled{1}}3^{\textcircled{1}}8 \longrightarrow 300 \\ + 467 \longrightarrow + 500 \\ \hline 805 \qquad \qquad \qquad 800 \end{array}$$

c.
$$\begin{array}{r} 501 \longrightarrow 500 \\ + 845 \longrightarrow + 800 \\ \hline 1346 \qquad \qquad \qquad 1300 \end{array}$$

d.
$$\begin{array}{r} 6^{\textcircled{1}}7^{\textcircled{1}}8 \longrightarrow 700 \\ + 266 \longrightarrow + 300 \\ \hline 944 \qquad \qquad \qquad 1000 \end{array}$$

e.
$$\begin{array}{r} 5^{\textcircled{1}}7^{\textcircled{1}}9 \longrightarrow 600 \\ + 199 \longrightarrow + 200 \\ \hline 778 \qquad \qquad \qquad 800 \end{array}$$

f.
$$\begin{array}{r} 7^{\textcircled{1}}20 \longrightarrow 700 \\ + 298 \longrightarrow + 300 \\ \hline 1018 \qquad \qquad \qquad 1000 \end{array}$$

5. a.
$$\begin{array}{r} 344^{\textcircled{1}}6 \longrightarrow 3000 \\ + 4225 \longrightarrow + 5000 \\ \hline 7671 \qquad \qquad \qquad 7000 \end{array}$$

b.
$$\begin{array}{r} 5^{\textcircled{1}}7^{\textcircled{1}}8^{\textcircled{1}}6 \longrightarrow 6000 \\ + 2887 \longrightarrow + 3000 \\ \hline 8673 \qquad \qquad \qquad 9000 \end{array}$$

c.
$$\begin{array}{r} 1^{\textcircled{1}}3^{\textcircled{1}}4^{\textcircled{1}}7 \longrightarrow 1000 \\ + 4897 \longrightarrow + 5000 \\ \hline 6244 \qquad \qquad \qquad 6000 \end{array}$$

d.
$$\begin{array}{r} 5^{\textcircled{1}}9\ 8\ 1 \longrightarrow 6\ 0\ 0\ 0 \\ +\ 3\ 1\ 0\ 1 \longrightarrow +\ 3\ 0\ 0\ 0 \\ \hline 9\ 0\ 8\ 2 \qquad \qquad \qquad 9\ 0\ 0\ 0 \end{array}$$

e.
$$\begin{array}{r} 4\ 4\ 4\ 4 \longrightarrow 4\ 0\ 0\ 0 \\ +\ 3\ 2\ 2\ 5 \longrightarrow +\ 3\ 0\ 0\ 0 \\ \hline 7\ 6\ 6\ 9 \qquad \qquad \qquad 7\ 0\ 0\ 0 \end{array}$$

f.
$$\begin{array}{r} 6^{\textcircled{1}}9\ 0\ 3 \longrightarrow 7\ 0\ 0\ 0 \\ +\ 3\ 5\ 0\ 1 \longrightarrow +\ 4\ 0\ 0\ 0 \\ \hline 1\ 0\ 4\ 0\ 4 \qquad \qquad \qquad 1\ 1\ 0\ 0\ 0 \end{array}$$

Revision Chapter

1. a. $9000 + 6752 = 15752$
- b. $35 + 45 = 80$
- c. No. of math books = 579
 No. of English = 431
 No. of Computer books = 261
 Total no. of books = $579 + 431 + 261 = 1271$
2. a. Monthly expenditure = ₹ 8423
 Monthly Savings = ₹ 3827
 Monthly Income = ₹ 8423 + ₹ 3827

$$\begin{array}{r} 8^{\textcircled{1}}\ 4\ 2^{\textcircled{1}}\ 3 \\ +\ 3\ 8\ 2\ 7 \\ \hline 1\ 2\ 2\ 5\ 0 \end{array}$$

Hence, total monthly income is ₹ 12250

- b. Number = $3537 + 2268$

$$\begin{array}{r} 3\ 5^{\textcircled{1}}\ 3^{\textcircled{1}}\ 7 \\ +\ 2\ 2\ 6\ 8 \\ \hline 5\ 8\ 0\ 5 \end{array}$$
- c. No. of apple trees = 1050
 No. of banana trees = 877
 No. of papaya trees = 678
 Total no. of trees = $1050 + 877 + 678$

$$\begin{array}{r} \text{Th H T O} \\ 1^{\textcircled{1}}\ 0^{\textcircled{2}}\ 5^{\textcircled{1}}\ 0 \\ +\ 8\ 7\ 7 \\ \hline 6\ 7\ 8 \\ \hline 2\ 6\ 0\ 5 \end{array}$$

Hence, total no. of trees are 2605 in the garden

- d. Cost of first cow = ₹ 9837
 Cost of second cow = ₹ 5845
 Total cost of both cows = ₹ 9837 + ₹ 5845

$$\begin{array}{r} \text{Th H T O} \\ 9^{\textcircled{1}} 8 3^{\textcircled{1}} 7 \\ + 5 8 4 5 \\ \hline 1 5 6 8 2 \end{array}$$

Hence, total cost of both cows ₹ 15682

- d. Nidhi's monthly salary = ₹ 5500/-
 Husband's monthly salary = ₹ 9500/-
 Total monthly earning = ₹ 5500 + ₹ 9500

$$\begin{array}{r} \text{Th H T O} \\ 5^{\textcircled{1}} 5 0 0 \\ + 9 5 0 0 \\ \hline 1 5 0 0 0 \end{array}$$

Hence, total monthly earning of both are ₹ 15682

- f. No. of men = 2608
 No. of women = 1643
 No. of children = 1000
 Total population of the village = 2608 + 1643 + 1000 =

$$\begin{array}{r} \text{Th H T O} \\ 2^{\textcircled{1}} 6 0^{\textcircled{1}} 8 \\ + 1 6 4 3 \\ \hline 1 0 0 0 \\ \hline 5 2 5 1 \end{array}$$

Hence, total population of the village 5251

3. a. $55 \xrightarrow{\text{Tens}} 60$ b. $247 \xrightarrow{\text{Tens}} 250$
 $31 \xrightarrow{\text{Tens}} 30$ $375 \xrightarrow{\text{Tens}} 380$
 $60 + 30 = 90$ $250 + 380 = 630$
 4. a. $4215 \xrightarrow{\text{hundreds}} 4200$ b. $2172 \xrightarrow{\text{Tens}} 2200$
 $2787 \xrightarrow{\text{hundreds}} 2800$ $2461 \xrightarrow{\text{Tens}} 2500$
 $4200 + 2800 = 7000$ $2200 + 2500 = 4700$

5. a. $7127 \xrightarrow{\text{Thousands}} 7000$
 $1654 \xrightarrow{\text{Thousands}} 2000$
 $7000 + 2000 = 9000$

6. a. 6246 b. 7395

b. $6217 \xrightarrow{\text{Thousands}} 6000$
 $1523 \xrightarrow{\text{Thousands}} 2000$
 $6000 + 2000 = 8000$

c. 8005 d. 6060

3.1

1. a.

Th	H	T	O
6	3	4	6
-	1	2	0
<hr/>			
5	1	4	4

c.

Th	H	T	O
8	6	5	2
-	3	2	4
<hr/>			
5	4	1	2

2. a.

Th	H	T	O
9	8	6	0
-	7	5	4
<hr/>			
2	3	2	0

c.

Th	H	T	O
$\textcircled{6}$	$\textcircled{10}$		
7	8	4	3
-	4	6	1
<hr/>			
2	4	3	0

3. a.

Th	H	T	O
6	8	5	3
-	3	8	4
<hr/>			
3	0	1	1

4.

Th	H	T	O
	$\textcircled{7}$	$\textcircled{10}$	
5	8	8	6
-	4	3	2
<hr/>			
1	4	8	6

b.

Th	H	T	O
		$\textcircled{5}$	$\textcircled{13}$
3	7	6	3
-	1	6	2
<hr/>			
2	1	3	8

b.

Th	H	T	O
6	6	9	9
-	5	2	5
<hr/>			
1	4	4	3

d.

Th	H	T	O
8	8	2	7
-	6	2	0
<hr/>			
2	6	2	1

b.

Th	H	T	O
4	8	9	5
-	1	0	8
<hr/>			
3	8	1	3

3.2

1. a.

Th	H	T	O
⑥	⑰	⑨	⑬
7	8	0	3
-	3	9	8 5
	3	8	1 8

c.

Th	H	T	O
⑧	⑩	⑨	⑩
9	1	0	0
-	4	2	9 4
	4	8	0 6

e.

Th	H	T	O
	①	⑭	
9	2	4	6
-	5	1	7 2
	4	0	7 4

2. a.

Th	H	T	O
	⑧	⑩	⑭
5	9	1	4
-	3	4	2 5
	2	4	8 9

c.

Th	H	T	O
⑤	⑨	⑨	⑩
6	0	0	0
-	5	3	4 1
	0	6	5 9

e.

Th	H	T	O
③	⑪	⑨	⑩
4	2	0	0
-	3	9	9 9
	0	2	0 1

b.

Th	H	T	O
⑦	⑪	⑨	⑩
8	2	0	0
-	5	4	6 7
	2	7	3 3

d.

Th	H	T	O
⑧	⑨	⑨	⑩
9	0	0	0
-	8	1	7 2
	0	8	2 8

f.

Th	H	T	O
⑦	⑯	⑭	⑯
8	7	5	6
-	3	8	9 7
	4	8	5 9

b.

Th	H	T	O
⑦	⑪	⑨	⑩
7	0	6	0
-	2	8	7 5
	4	1	8 5

d.

Th	H	T	O
⑤	⑯	⑫	⑭
6	7	3	4
-	3	8	4 7
	2	8	8 7

f.

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

$$\begin{array}{r}
 \text{3.} \quad \begin{array}{cccc}
 \text{Th} & \text{H} & \text{T} & \text{O} \\
 \textcircled{7} & \textcircled{15} & \textcircled{1} & \textcircled{14} \\
 \text{8} & \text{5} & \text{2} & \text{4} \\
 - & 9 & 0 & 8 \\
 \hline
 7 & 6 & 1 & 6
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{4.} \quad \begin{array}{cccc}
 \textcircled{6} & \textcircled{12} & & \textcircled{1} & \textcircled{10} \\
 \text{7} & \text{2} & 7 & \text{2} & \text{0} \\
 - & 5 & 5 & 4 & 0 & 5 \\
 \hline
 1 & 7 & 3 & 1 & 5
 \end{array}
 \end{array}$$

3.3

1. a. (iii) the no. itself
- b. (ii) 0

2. a. $4739 - 0 = 4739$

Checking answer = $4739 + 0 = 4739$

- b. $9809 - 8984$

$$\begin{array}{r}
 \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \textcircled{8} \quad \textcircled{17} \quad \textcircled{10} \\
 \text{9} \quad \text{8} \quad \text{0} \quad 9 \\
 - \quad 8 \quad 9 \quad 8 \quad 4 \\
 \hline
 \quad \quad 8 \quad 2 \quad 5
 \end{array}$$

Checking answer

$$\begin{array}{r}
 \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \textcircled{1} \quad \textcircled{1} \\
 8 \quad 9 \quad 8 \quad 4 \\
 + \quad 8 \quad 2 \quad 5 \\
 \hline
 9 \quad 8 \quad 0 \quad 9
 \end{array}$$

- c. $6627 - 2988$

$$\begin{array}{r}
 \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \textcircled{5} \quad \textcircled{15} \quad \textcircled{11} \quad \textcircled{17} \\
 \text{6} \quad \text{6} \quad \text{2} \quad \text{7} \\
 - \quad 2 \quad 9 \quad 8 \quad 8 \\
 \hline
 \quad \quad 3 \quad 6 \quad 3 \quad 9
 \end{array}$$

Checking answer

$$\begin{array}{r}
 \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \textcircled{1} \quad \textcircled{1} \quad \textcircled{1} \\
 2 \quad 9 \quad 8 \quad 8 \\
 + \quad 3 \quad 6 \quad 3 \quad 9 \\
 \hline
 6 \quad 6 \quad 2 \quad 7
 \end{array}$$

- d. $7727 - 1000$

$$\begin{array}{r}
 \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 7 \quad 7 \quad 2 \quad 7 \\
 - \quad 1 \quad 0 \quad 0 \quad 0 \\
 \hline
 6 \quad 7 \quad 2 \quad 7
 \end{array}$$

Checking answer

$$\begin{array}{r}
 \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 1 \quad 0 \quad 0 \quad 0 \\
 + \quad 6 \quad 7 \quad 2 \quad 7 \\
 \hline
 7 \quad 7 \quad 2 \quad 7
 \end{array}$$

e. $5000 - 4133$

	Th	H	T	O
	④	⑨	⑨	⑩
	5	0	0	0
-	4	1	3	3
	8 6 7			

Checking answer

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

f. $9009 - 9009$

	Th	H	T	O
	9	0	0	9
-	9	0	0	9
	0 0 0 0			

Checking answer

	Th	H	T	O
	9	0	0	9
+				0
	9 0 0 9			

3. Fill in the blanks

a. $875 - 0 = 875$ b. $1539 - 1539 = 0$

c. $4125 - \underline{0} = 4125$ d. $2600 - \underline{0} = 2600$

3.4

1. a. 200 b. 176 c. 3023 d. 3309
 e. 325 f. 4344 g. 1800 h. 4800
 i. 1500 j. 100

3.5

1. a. 44 is rounded off to tens 40
 32 is rounded off to tens 30
 $40 - 30 = 10$
 b. 139 is rounded off to tens 140
 123 is rounded off to tens 120
 $140 - 120 = 20$
 c. 588 is rounded off to tens 590
 468 is rounded off to tens 470
 $590 - 470 = 120$
 d. 677 is rounded off to tens 680
 69 is rounded off to tens 70
 $680 - 70 = 610$
 e. 8172 is rounded off to tens 8170
 6653 is rounded off to tens 6650
 $8170 - 6650 = 1520$
 f. 9983 is rounded off to tens 9980
 8412 is rounded off to tens 8410
 $9980 - 8410 = 1570$

2. a. 763 is rounded off to hundreds 800
 230 is rounded off to hundreds 200
 $800 - 200 = 600$
- b. 531 is rounded off to hundreds 500
 420 is rounded off to hundreds 400
 $500 - 400 = 100$
- c. 715 is rounded off to hundreds 700
 591 is rounded off to hundreds 600
 $700 - 600 = 100$

3.6

1. Total no. of students = 2100
 No. of boys = 1673
 No. of girls = $2100 - 1673 =$

	Th	H	T	O
	①	⑩	⑨	⑩
	2	1	0	0
-	1	6	7	3
	<hr/>			
	4	2	7	
	<hr/>			

Hence, 427 girls were there in the school.

2. Demand of cakes during weekend = 1875
 No. of less cakes baked = 397
 No. of cakes available for sale = $1875 - 397 =$

	Th	H	T	O
		⑦	⑩	⑮
	1	8	7	5
-		3	9	7
	<hr/>			
	1	4	7	8
	<hr/>			

Hence, 1478 cakes are available for sale.

3. Price of washing machine = ₹ 9290
 Price of mobile phone = ₹ 7450
 Price of washing machine is more than mobile phone
 $= ₹ 9290 - ₹ 7450 =$

	Th	H	T	O
	⑧	⑫		
	9	2	9	0
-	7	4	5	0
	<hr/>			
	1	8	4	0
	<hr/>			

Hence, washing machine is more than mobile phone by ₹ 1840

4. Total population of village = 6350
 No. of males = 3775
 No. of females = 6350 - 3775 =

$$\begin{array}{r}
 \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \textcircled{5} \quad \textcircled{12} \quad \textcircled{14} \quad \textcircled{10} \\
 \cancel{6} \quad \cancel{3} \quad \cancel{5} \quad \cancel{0} \\
 - \quad 3 \quad 7 \quad 7 \quad 5 \\
 \hline
 2 \quad 5 \quad 7 \quad 5
 \end{array}$$

Hence no. of females are 2575.

5. Total no. of bags of rice in godown = 8027
 No. of bags shifted to another godown = 6999
 No. of bags left = 8027 - 6999 =

$$\begin{array}{r}
 \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \quad \quad \textcircled{9} \quad \textcircled{11} \quad \textcircled{17} \\
 8 \quad \cancel{0} \quad \cancel{2} \quad \cancel{7} \\
 - \quad 6 \quad 9 \quad 9 \quad 9 \\
 \hline
 2 \quad 0 \quad 2 \quad 8
 \end{array}$$

Hence, 2028 bags are left.

6. Qty of petrol in tanker = 2235 l
 Qty of petrol supplied to petrol pump = 1994 l
 Qty of petrol left = 2235 - 1944 =

$$\begin{array}{r}
 \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \textcircled{1} \quad \textcircled{11} \quad \textcircled{13} \\
 \cancel{2} \quad \cancel{2} \quad \cancel{3} \quad 5 \\
 - \quad 1 \quad 9 \quad 9 \quad 4 \\
 \hline
 2 \quad 4 \quad 1
 \end{array}$$

Hence, 241 l of petrol is remained in the tanker.

7.
$$\begin{array}{r}
 \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \quad \quad \quad \textcircled{2} \quad \textcircled{10} \\
 8 \quad 5 \quad \cancel{3} \quad \cancel{0} \\
 - \quad 6 \quad 0 \quad 2 \quad 1 \\
 \hline
 2 \quad 5 \quad 0 \quad 9
 \end{array}$$

Hence, 2509 is added to 6021 to get.

$$\begin{array}{r}
 \text{8.} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \begin{array}{cccc}
 \textcircled{8} & \textcircled{9} & \textcircled{9} & \textcircled{10} \\
 \cancel{9} & \cancel{0} & \cancel{0} & \cancel{0} \\
 - & 8 & 5 & 3 & 7 \\
 \hline
 & 0 & 4 & 6 & 3
 \end{array}
 \end{array}$$

Hence, 463 is subtracted from 9000 to get 8537.

Revision

1. a. $3021 - \underline{0} = 3021$

b. $4134 - \underline{4134} = 0$

2. a.
$$\begin{array}{r}
 \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \begin{array}{cccc}
 \textcircled{6} & \textcircled{13} & \textcircled{3} & \textcircled{11} \\
 \cancel{7} & \cancel{3} & \cancel{4} & \cancel{1} \\
 - & 5 & 6 & 1 & 3 \\
 \hline
 & 1 & 7 & 2 & 8
 \end{array}
 \end{array}$$

b.
$$\begin{array}{r}
 \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \begin{array}{cccc}
 \textcircled{4} & \textcircled{11} & \textcircled{15} & \textcircled{11} \\
 \cancel{5} & \cancel{2} & \cancel{6} & \cancel{1} \\
 - & 2 & 3 & 6 & 4 \\
 \hline
 & 2 & 8 & 9 & 7
 \end{array}
 \end{array}$$

c.
$$\begin{array}{r}
 \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \begin{array}{cccc}
 \textcircled{7} & \textcircled{12} & \textcircled{15} & \textcircled{11} \\
 \cancel{8} & \cancel{3} & \cancel{6} & \cancel{1} \\
 - & 4 & 5 & 7 & 3 \\
 \hline
 & 3 & 7 & 8 & 3
 \end{array}
 \end{array}$$

3. a.
$$\begin{array}{r}
 \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \begin{array}{cccc}
 \textcircled{5} & \textcircled{11} & \textcircled{3} & \textcircled{12} \\
 \cancel{6} & \cancel{1} & \cancel{4} & \cancel{2} \\
 - & 4 & 2 & 1 & 5 \\
 \hline
 & 1 & 9 & 2 & 7
 \end{array}
 \end{array}$$

checking
$$\begin{array}{r}
 \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \begin{array}{cccc}
 \textcircled{1} & & & \textcircled{1} \\
 4 & 2 & 1 & 5 \\
 + & 1 & 9 & 2 & 7 \\
 \hline
 6 & 1 & 4 & 2
 \end{array}
 \end{array}$$

b.
$$\begin{array}{r}
 \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \begin{array}{cccc}
 \textcircled{5} & \textcircled{9} & \textcircled{9} & \textcircled{10} \\
 \cancel{6} & \cancel{0} & \cancel{0} & \cancel{0} \\
 - & 5 & 2 & 5 & 6 \\
 \hline
 & 0 & 7 & 4 & 4
 \end{array}
 \end{array}$$

checking
$$\begin{array}{r}
 \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \begin{array}{cccc}
 \textcircled{1} & \textcircled{1} & \textcircled{1} & \\
 5 & 2 & 5 & 6 \\
 + & & 7 & 4 & 4 \\
 \hline
 6 & 0 & 0 & 0
 \end{array}
 \end{array}$$

c.
$$\begin{array}{r}
 \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \begin{array}{cccc}
 9 & 0 & 8 & 7 \\
 - & 5 & 0 & 0 & 5 \\
 \hline
 4 & 0 & 8 & 2
 \end{array}
 \end{array}$$

checking
$$\begin{array}{r}
 \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \begin{array}{cccc}
 5 & 0 & 0 & 5 \\
 + & 4 & 0 & 8 & 2 \\
 \hline
 9 & 0 & 8 & 7
 \end{array}
 \end{array}$$

4. a. $67 \longrightarrow 70$
 $49 \longrightarrow 50$
 $70 - 50 = 20$
- b. $7424 \longrightarrow 7400$
 $875 \longrightarrow 900$

$$\begin{array}{r}
 \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \textcircled{6} \quad \textcircled{14} \\
 \cancel{7} \quad \cancel{4} \quad \cancel{2} \quad \cancel{4} \\
 - \quad \quad 9 \quad 0 \quad 0 \\
 \hline
 6 \quad 5 \quad 0 \quad 0
 \end{array}$$

5. a. Height of Godwin Austen = 8611 m
 Height of Nanga Prabat = 8126 m
 Difference b/w two = 8611 - 8126

$$\begin{array}{r}
 \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \quad \quad \textcircled{5} \quad \textcircled{10} \quad \textcircled{11} \\
 \quad \quad \cancel{8} \quad \cancel{6} \quad \cancel{1} \quad \cancel{1} \\
 - \quad 8 \quad 1 \quad 2 \quad 6 \\
 \hline
 0 \quad 4 \quad 8 \quad 5
 \end{array}$$

Hence, difference between the heights of two is 485 m

6. a. Length of circumference of Buddh International circuit, Noida = 7138 m
 Length of circumference of Calcutta polo club = 4290 m
 Difference between length of the two tracks = 7138 - 4290

$$\begin{array}{r}
 \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 \quad \quad \textcircled{6} \quad \textcircled{10} \quad \textcircled{13} \\
 \quad \quad \cancel{7} \quad \cancel{1} \quad \cancel{3} \quad 8 \\
 - \quad 4 \quad 2 \quad 9 \quad 0 \\
 \hline
 2 \quad 8 \quad 4 \quad 8
 \end{array}$$

Hence, difference between length of the two tracks is 2848 m.

4.1

1. 1. $10 \times 1 = 10$ 2. $25 \times 6 = 6 \times 25$ 3. $20 \times 0 = 0$
 4. $101 \times 0 = 0$ 5. $820 \times 9 = 9 \times 820$ 6. $4 \times 3 \times 0 = 0$
 7. $8 \times 7 \times 5 = 5 \times 7 \times 8$ 8. $6 \times 3 \times 2 = 2 \times 3 \times 6$

4.2

1. 1. 15×600
 $15 \times 6 \times 100 = 9000$

2. 11×900
 $11 \times 9 \times 100 = 9900$
3. 10×700
 $1 \times 7 \times 100 = 7000$
4. 34×200
 $34 \times 2 \times 100 = 6800$
5. 199×1000
 $199 \times 1000 = 199000$
6. 12×3000
 $12 \times 3 \times 1000 = 36000$
7. 4000×6
 $4 \times 6 \times 1000 = 24000$
8. 9×800
 $9 \times 8 \times 100 = 7200$
9. 25×5000
 $25 \times 5 \times 1000 = 125000$
10. 36×2000
 $36 \times 2 \times 1000 = 72000$
11. 18×4000
 $18 \times 4 \times 1000 = 72000$
12. 48×1000
 $48 \times 1000 = 48000$

4.3

$$\begin{array}{r}
 \text{1.} \quad \begin{array}{r} \text{H T O} \\ \textcircled{1} \textcircled{1} \\ 2 \ 7 \ 8 \\ \times 2 \\ \hline 5 \ 5 \ 6 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{2.} \quad \begin{array}{r} \text{H T O} \\ \textcircled{2} \\ 2 \ 0 \ 7 \\ \times 3 \\ \hline 6 \ 2 \ 1 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{3.} \quad \begin{array}{r} \text{H T O} \\ \textcircled{3} \ \textcircled{3} \\ 1 \ 9 \ 8 \\ \times 4 \\ \hline 7 \ 9 \ 2 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{4.} \quad \begin{array}{r} \text{H T O} \\ \textcircled{3} \ \textcircled{2} \\ 1 \ 7 \ 5 \\ \times 5 \\ \hline 8 \ 7 \ 5 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{5.} \quad \begin{array}{r} \text{H T O} \\ \textcircled{1} \\ 3 \ 2 \ 7 \\ \times 2 \\ \hline 6 \ 5 \ 4 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{6.} \quad \begin{array}{r} \text{H T O} \\ \textcircled{1} \ \textcircled{1} \\ 1 \ 5 \ 7 \\ \times 2 \\ \hline 3 \ 1 \ 4 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{7.} \quad \begin{array}{r} \text{H T O} \\ \textcircled{1} \\ 2 \ 1 \ 4 \\ \times 4 \\ \hline 8 \ 5 \ 6 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{8.} \quad \begin{array}{r} \text{H T O} \\ \textcircled{3} \\ 1 \ 1 \ 6 \\ \times 6 \\ \hline 6 \ 9 \ 6 \end{array}
 \end{array}$$

4.4

1. a.	H T O	b. H T O	c. H T O	d. H T O
	1 2 0	3 2 4	4 4 2	7 5
	× 1 4	× 1 2	× 2 0	× 4 5
	-----	-----	-----	-----
	4 8 0	6 4 8	0 0 0	3 7 5
	1 2 0 0	3 2 4 0	8 8 4 0	3 0 0 0
	-----	-----	-----	-----
	1 6 8 0	3 8 8 8	8 8 4 0	3 3 7 5

2. a.	b.
H T O	H T O
①	①
1 2 9	1 0 3
× 1 2	× 2 5
-----	-----
2 5 8	5 1 5
+ 1 2 9 0	+ 2 0 6 0
-----	-----
1 5 4 8	2 5 7 5

c.	d.
H T O	T O
⑤	①
4 9	2 2
× 6 6	× 1 1
-----	-----
2 9 4	2 2
+ 2 9 4 0	+ 2 2 0
-----	-----
3 2 3 4	2 4 0

e.	f.
H T O	50×40
①	$5 \times 4 \times 10 \times 10$
6 6	$= 20 \times 10 \times 10$
× 3 3	$= 2000$

1 9 8	
+ 1 9 8 0	

2 1 7 8	

4.5

1. No. of chocolates in one packet = 138
 No. of chocolates in 4 packets = 138×4

$$\begin{array}{r}
 \textcircled{1} \quad \textcircled{3} \\
 1 \quad 3 \quad 8 \\
 \times \quad 4 \\
 \hline
 5 \quad 5 \quad 2
 \end{array}$$

Hence, 552 chocolates are in 4 packets

2. No. of pages in one notebook = 216
 No. of pages in 6 notebooks = 216×6

$$\begin{array}{r} \textcircled{3} \\ 216 \\ \times 6 \\ \hline 1296 \end{array}$$

Hence, 1296 pages are in 6 notebooks

3. No. of tickets sold in one day = 504
 No. of tickets sold in 6 days = 504×6

$$\begin{array}{r} \textcircled{2} \\ 504 \\ \times 6 \\ \hline 3024 \end{array}$$

Hence, 3024 tickets sold in 6 days

4. No. of newspaper sold by shopkeeper in One day = 324
 No. of newspaper sold by shopkeeper in 7 days = 324×7

$$\begin{array}{r} \textcircled{1} \quad \textcircled{2} \\ 324 \\ \times 7 \\ \hline 2268 \end{array}$$

Hence, 2268 newspapers were sold in 7 days

5. Cost of 1 table = ₹ 875
 Cost of 7 table = ₹ 875×7

$$\begin{array}{r} \textcircled{5} \quad \textcircled{3} \\ 875 \\ \times 7 \\ \hline 6125 \end{array}$$

Hence, cost of 7 table is ₹ 6125

6. No. of rows = 8
 No. of chairs in each row = 16
 No. of chairs in classroom = 16×8

$$\begin{array}{r} \textcircled{4} \\ 16 \\ \times 8 \\ \hline 128 \end{array}$$

Hence, there are 128 chairs in classroom

7. No. of inches in 1 foot = 12 inches
 No. of inches in 9 feet = 12×9
 = 108 inches

8. Cost of one shirts = ₹ 324
 Cost of 79 shirts = ₹ 578 × 79

$$\begin{array}{r}
 \text{H T O} \\
 \textcircled{3} \textcircled{7} \\
 5 \ 3 \ 8 \\
 \times 7 \ 9 \\
 \hline
 4 \ 8 \ 4 \ 2 \\
 + 3 \ 7 \ 6 \ 6 \ 0 \\
 \hline
 4 \ 2 \ 5 \ 0 \ 2
 \end{array}$$

Hence cost of 79 shirts = ₹ 42502

9. No. of pencils in one packet = 125
 No. of pencils in 986 packets = 125 × 986

$$\begin{array}{r}
 \text{H T O} \\
 \textcircled{1} \textcircled{3} \\
 1 \ 2 \ 5 \\
 \times 9 \ 8 \ 6 \\
 \hline
 7 \ 5 \ 0 \\
 1 \ 0 \ 0 \ 0 \ 0 \\
 + 1 \ 1 \ 2 \ 5 \ 0 \ 0 \\
 \hline
 1 \ 2 \ 3 \ 2 \ 5 \ 0
 \end{array}$$

Hence, there are 12350 pencils in 986 packets

10. Cost of table fan = ₹ 975
 Cost of 36 table fan = ₹ 975 × 36

$$\begin{array}{r}
 \text{H T O} \\
 \textcircled{3} \textcircled{7} \\
 9 \ 7 \ 5 \\
 \times 3 \ 6 \\
 \hline
 5 \ 8 \ 5 \ 0 \\
 + 2 \ 9 \ 2 \ 5 \ 0 \\
 \hline
 3 \ 5 \ 1 \ 0 \ 0
 \end{array}$$

Hence cost of 36 table fans is ₹ 35100

Revision

a. $14 \times 8 = 112$

$$\begin{array}{r}
 8 \overline{) 112} \textcircled{14} \\
 \underline{- 8} \downarrow \\
 32 \\
 \underline{- 32} \\
 0
 \end{array}$$

b. $7 \times 7 = 49$

$$\begin{array}{r}
 7 \overline{) 49} \textcircled{7} \\
 \underline{- 49} \\
 0
 \end{array}$$

c. $12 \times 7 = 84$

$$\begin{array}{r} 12 \overline{)84} \overline{7} \\ -84 \\ \hline 0 \end{array}$$

d. $6 \times 19 = 114$

$$\begin{array}{r} 19 \overline{)114} \overline{6} \\ -114 \\ \hline 0 \end{array}$$

2. a. $7 \times 7 \square 6 \times 8$

49 > 48

c. $9 \times 8 \square 12 \times 6$

72 = 72

b. $20 \times 5 \square 10 \times 10$

100 = 100

b. $18 \times 5 \square 15 \times 8$

90 < 120

3. a. 8760 b. 8100

c. 100 d. 0

e. 925 f. 100

4. 1242

PV of 2 = 200, 2

product = $200 \times 2 = 400$

5. $10 \times 100 = 1000$

6. No. of packets in one box = 50

No. of boxes = 30

Total no. of packets = $30 \times 50 = 1500$

7. No. of children in one bus = 66

No. of buses = 28

Total no. of children in 28 buses = 66×28

$$\begin{array}{r} \text{T O} \\ \text{④} \\ 66 \\ \times 28 \\ \hline 528 \\ + 1320 \\ \hline 1848 \end{array}$$

Hence, 1848 children go to picnic in 28 buses

8. No. of grapes in one bunch = 54

No. of bunches = 23

Total no. of grapes in 23 bunches = 54×23

$$\begin{array}{r} \text{T O} \\ \text{①} \\ 54 \\ \times 23 \\ \hline 162 \\ + 1080 \\ \hline 1242 \end{array}$$

Hence, 1242 grapes are in 23 bunches

9. No. of bananas in 1 dozen = 12

No. of bananas in 6 dozen = $12 \times 6 = 72$

Hence, 72 bananas are in 6 dozen

10. No. of wheels in one car = 4

No. of wheels in 16 cars = $4 \times 16 = 64$

5.1

1. a. $35 \div 5$

$$\begin{array}{r} 5 \overline{) 35} \quad (7 \\ - 35 \\ \hline 0 \end{array}$$

There are 7 fives

b. $30 \div 5$

$$\begin{array}{r} 5 \overline{) 30} \quad (6 \\ - 30 \\ \hline 0 \end{array}$$

There are 6 fives

c. $50 \div 5$

$$\begin{array}{r} 5 \overline{) 50} \quad (10 \\ - 50 \\ \hline 0 \end{array}$$

d. $45 \div 5$

$$\begin{array}{r} 5 \overline{) 45} \quad (9 \\ - 45 \\ \hline 0 \end{array}$$

There are 9 fives

2. a. $40 \div 8$

$$\begin{array}{l} 40 - 8 = 32 \\ 32 - 8 = 24 \\ 24 - 8 = 16 \\ 16 - 8 = 8 \\ 8 - 8 = 0 \end{array}$$

$$40 \div 8 = 5$$

b. $16 \div 4$

$$\begin{array}{l} 16 - 4 = 12 \\ 12 - 4 = 8 \\ 8 - 4 = 4 \\ 4 - 4 = 0 \end{array}$$

$$16 \div 4 = 4$$

c. $35 \div 7$

$$\begin{array}{l} 35 - 7 = 28 \\ 28 - 7 = 21 \\ 21 - 7 = 14 \\ 14 - 7 = 7 \\ 7 - 7 = 0 \end{array}$$

$$35 \div 7 = 5$$

d. $27 \div 9$

$$\begin{array}{l} 27 - 9 = 18 \\ 18 - 9 = 9 \\ 9 - 9 = 0 \end{array}$$

$$27 \div 9 = 3$$

e. $60 \div 12$

$$\begin{array}{l} 60 - 12 = 48 \\ 48 - 12 = 36 \\ 36 - 12 = 24 \\ 24 - 12 = 12 \\ 12 - 12 = 0 \end{array}$$

$$60 \div 12 = 5$$

f. $30 \div 5$

$30 - 5 = 25$

$25 - 5 = 20$

$20 - 5 = 15$

$15 - 5 = 10$

$10 - 5 = 5$

$5 - 5 = 0$

$30 \div 5 = 6$

g. $66 \div 11$

$66 - 11 = 55$

$55 - 11 = 44$

$44 - 11 = 33$

$33 - 11 = 22$

$22 - 11 = 11$

$11 - 11 = 0$

$66 \div 11 = 6$

h. $72 \div 8$

$72 - 8 = 64$

$64 - 8 = 56$

$56 - 8 = 48$

$48 - 8 = 40$

$40 - 8 = 32$

$32 - 8 = 24$

$24 - 8 = 16$

$16 - 8 = 8$

$8 - 8 = 0$

$72 \div 8 = 9$

3. a. $24 \div 4 = 6$

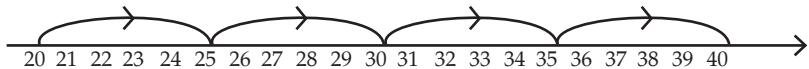
b. $12 \div 3 = 4$

c. $35 \div 7 = 5$

4. a. $8 \div 2 = 4$

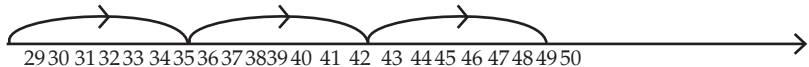
b. $12 \div 6 = 2$

5. a. $40 \div 5$



$40 \div 5 = 8$

b. $49 \div 7$



$49 \div 7 = 7$

5.2

1. a. 1

b. 0

c. 18

d. 0

e. 0

- f. 1 g. 1 h. 1
2. a. $7 \times 8 = 56$ b. $6 \times 3 = 18$ c. $2 \times 5 = 10$
 $8 \times 7 = 56$ $3 \times 6 = 18$ $5 \times 2 = 10$
3. a. $45 \div 9 = 5$ b. $12 \div 4 = 3$ c. $21 \div 3 = 7$
 $45 \times 5 = 9$ $12 \times 3 = 4$ $21 \times 7 = 3$
4. b. $9 \div 3 = 3$ c. $12 \div 4 = 3$ d. $12 \div 3 = 4$
 $3 \times 3 = 9$ $3 \times 4 = 12$ $4 \times 3 = 12$

5.3

1. a.
$$\begin{array}{r} 3 \overline{) 319} \text{ (63)} \\ \underline{-30} \downarrow \\ 19 \\ \underline{-15} \\ 4 \end{array} \quad \begin{array}{l} Q = 63 \\ R = 4 \end{array}$$
- b.
$$\begin{array}{r} 6 \overline{) 444} \text{ (74)} \\ \underline{-42} \downarrow \\ 24 \\ \underline{-24} \\ 0 \end{array} \quad \begin{array}{l} Q = 74 \\ R = 0 \end{array}$$
- c.
$$\begin{array}{r} 7 \overline{) 1059} \text{ (151)} \\ \underline{-7} \downarrow \\ 35 \\ \underline{-35} \downarrow \\ 09 \\ \underline{-7} \\ 2 \end{array} \quad \begin{array}{l} Q = 151 \\ R = 2 \end{array}$$
- d.
$$\begin{array}{r} 8 \overline{) 1005} \text{ (125)} \\ \underline{-8} \downarrow \\ 20 \\ \underline{-16} \downarrow \\ 45 \\ \underline{-40} \\ 5 \end{array} \quad \begin{array}{l} Q = 125 \\ R = 5 \end{array}$$
2. a.
$$\begin{array}{r} 2 \overline{) 405} \text{ (202)} \\ \underline{-4} \downarrow \\ 00 \\ \underline{-0} \downarrow \\ 5 \\ \underline{-4} \\ 1 \end{array} \quad \begin{array}{l} Q = 202 \\ R = 1 \end{array}$$
- b.
$$\begin{array}{r} 2 \overline{) 742} \text{ (371)} \\ \underline{-6} \downarrow \\ 14 \\ \underline{-14} \downarrow \\ 02 \\ \underline{-2} \\ 0 \end{array} \quad \begin{array}{l} Q = 371 \\ R = 0 \end{array}$$

$$\begin{array}{r}
 3 \overline{) 690} \text{ (230)} \\
 \underline{-6 \downarrow} \\
 09 \\
 \underline{-9 \downarrow} \\
 00 \\
 \underline{-0} \\
 0
 \end{array}
 \quad
 \begin{array}{l}
 Q = 230 \\
 R = 0
 \end{array}$$

$$\begin{array}{r}
 9 \overline{) 7629} \text{ (847)} \\
 \underline{-72 \downarrow} \\
 42 \\
 \underline{-36 \downarrow} \\
 69 \\
 \underline{-63} \\
 6
 \end{array}
 \quad
 \begin{array}{l}
 Q = 847 \\
 R = 6
 \end{array}$$

3. a. $18 \div 10$ $Q = 1$ $R = 8$
 b. $45 \div 10$ $Q = 4$ $R = 5$
 c. $205 \div 10$ $Q = 20$ $R = 5$
 d. $3500 \div 10$ $Q = 350$ $R = 0$

5.4

1. Cost of 12 kg sugar
 Cost of 1 kg sugar

$$\begin{array}{l}
 = ₹ 576 \\
 = ₹ 576 \div 12 \\
 12 \overline{) 576} \text{ (48)} \\
 \underline{-48 \downarrow} \\
 096 \\
 \underline{-96} \\
 0
 \end{array}$$

Hence cost of 1 kg of sugar is ₹ 48

2. Total Passengers = 1296
 No. of passenger sit on one berths = 4
 No. of berths = $1296 \div 4$

$$\begin{array}{r}
 4 \overline{) 1296} \text{ (324)} \\
 \underline{-12 \downarrow} \\
 09 \\
 \underline{-8 \downarrow} \\
 16 \\
 \underline{-16} \\
 0
 \end{array}$$

Hence, 324 berths are required for 1296 passengers.

3. Distance covered in 5 days = 1025 km

Distance covered in 1 day = $1025 \div 5$

$$\begin{array}{r} 5 \overline{)1025} \text{ (205)} \\ - 10 \downarrow \downarrow \\ \hline 025 \\ - 25 \\ \hline 0 \end{array}$$

Hence, 205 km is covered in 1 day

4. No. of children in 10 classes = 450
No. of children in 1 class = $450 \div 10$

$$\begin{array}{r} 10 \overline{)450} \text{ (45)} \\ - 40 \downarrow \\ \hline 050 \\ - 50 \\ \hline 0 \end{array}$$

Hence, there are 45 children in one class

5. No. of chocolates in 4 boxes = 112
No. of chocolates in 1 box = $112 \div 4$

$$\begin{array}{r} 4 \overline{)112} \text{ (28)} \\ - 8 \downarrow \\ \hline 32 \\ - 32 \\ \hline 0 \end{array}$$

Hence, there are 28 chocolates in 1 box

6. Total cookies = 96
No. of cookies in one tray = 6
No. of trays = $96 \div 6$

$$\begin{array}{r} 6 \overline{)96} \text{ (16)} \\ - 6 \downarrow \\ \hline 36 \\ - 36 \\ \hline 0 \end{array}$$

Hence, there are 16 trays needed to bake 96 cookies.

Revision

1. a. $2 \times 4 = 32 \div 4$ b. $27 \div 3 = 90 \div 10$
 8 = 8 9 = 9
2. a. Divisor b. divide c. division d. Quotient
3. a. Total capacity of water in tank = 450 l
 Quantity of water in one pail = 15
 No. of pails = $450 \div 15$

$$\begin{array}{r}
 15 \overline{) 450} \text{ (30} \\
 - \underline{45} \downarrow \\
 00 \\
 - \underline{0} \\
 0
 \end{array}$$

Hence, there are 30 pails required to fill up the tank.

- b. No. of cakes = 902
 No. of cakes in one box = 8
 No. of boxes = $902 \div 8$

$$\begin{array}{r}
 8 \overline{) 902} \text{ (112} \\
 - \underline{8} \downarrow \\
 10 \downarrow \\
 - \underline{8} \downarrow \\
 22 \\
 - \underline{16} \\
 6
 \end{array}$$

Hence, there are 112 boxes to pack 902 cakes.
 6 cakes were left unpacked.

- c. No. of students in one school = 1190
 No. of classes = 5
 No. of students in class = $1190 \div 5$

$$\begin{array}{r}
 5 \overline{) 1190} \text{ (238} \\
 - \underline{10} \downarrow \\
 19 \downarrow \\
 - \underline{15} \downarrow \\
 40 \\
 - \underline{40} \\
 0
 \end{array}$$

Hence, there are 238 students in each class.






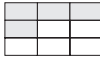

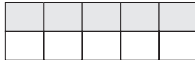
4. b. $8 \div 2 = 4$
 5. c. $328 \div 5$

$$\begin{array}{r}
 5 \overline{) 328} \text{ (65} \\
 - \underline{30} \downarrow \\
 028 \\
 - \underline{25} \\
 3
 \end{array}$$

Q = 65 R = 3

6. b. $12 \div 3 = 4$

6.1

1. a. $\frac{3}{4}$ b. $\frac{2}{4}$ c. $\frac{3}{5}$ d. $\frac{2}{3}$
 e. $\frac{6}{8}$ f. $\frac{1}{6}$ g. $\frac{5}{9}$ h. $\frac{4}{8}$
2. a. $\frac{1}{3}$ = one-third b. $\frac{2}{3}$ = Two-thirds
 c. $\frac{1}{6}$ = one-sixths b. $\frac{3}{5}$ = Three-fifths
 e. $\frac{3}{10}$ = Three tenths b. $\frac{3}{7}$ = Three-sevenths
 g. $\frac{5}{9}$ = five-nineths b. $\frac{5}{6}$ = Five-sixths
 i. $\frac{3}{4}$ = Three-fourths b. $\frac{2}{5}$ = Two-fifths
3. a. one b. two c. five d. three
4. a. $\frac{1}{8}$ b. $\frac{2}{3}$ c. $\frac{2}{5}$ d. $\frac{3}{4}$ e. $\frac{3}{7}$
 f. $\frac{5}{8}$ g. $\frac{2}{7}$ h. $\frac{3}{11}$ i. $\frac{4}{7}$
5. a. $\frac{2}{3}$  b. $\frac{1}{2}$ 
 c. $\frac{2}{4}$  d. $\frac{3}{4}$ 
 e. $\frac{4}{6}$  f. $\frac{4}{9}$ 
 g. $\frac{3}{8}$  h. $\frac{5}{10}$ 

6.2

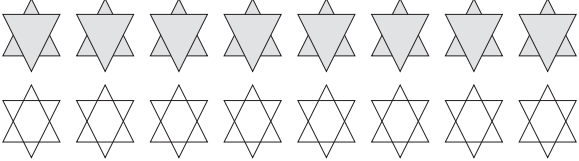
1. a. $\frac{1}{2}$ of 8 = $8 \div 2 = 4$ b. $\frac{1}{3}$ of 21 = $21 \div 3 = 7$
 c. $\frac{1}{4}$ of 24 = $24 \div 4 = 6$ d. $\frac{1}{5}$ of 15 = $15 \div 5 = 3$
 e. $\frac{1}{6}$ of 18 = $18 \div 6 = 3$ f. $\frac{1}{8}$ of 32 = $32 \div 8 = 4$
2. a. $\frac{9}{15}$ b. $\frac{5}{12}$ c. $\frac{16}{20}$ d. $\frac{9}{16}$ e. $\frac{5}{16}$

3. a.  = $\frac{1}{3}$

Ans : $\frac{1}{3}$ of 12 = 4

b.  = $\frac{1}{4}$

Ans : $\frac{1}{4}$ of 8 = $8 \div 4 = 2$

c.  = $\frac{1}{2}$

Ans : $\frac{1}{2}$ of 16 = $16 \div 2 = 8$

4. a. 5 = Denominator
 b. 4 = Numerator
 c. 7 = Numerator
 d. 11 = Denominator
 e. 30 = Denominator
 f. 13 = Numerator
 g. 50 = Numerator
 h. 105 = Denominator
 i. 89 = Denominator
 j. 12 = Numerator

5. a. $\frac{8}{11}$ b. $\frac{10}{30}$ c. $\frac{13}{10}$ d. $\frac{20}{2}$

e. $\frac{21}{42}$ f. $\frac{37}{47}$

6. a. $\frac{1}{3}$ of 12 = $12 \div 3 = 4$ b. $\frac{1}{2}$ of 10 = $10 \div 2 = 5$

c. $\frac{1}{4}$ of 28 = $28 \div 4 = 7$ d. $\frac{1}{5}$ of 15 = $15 \div 5 = 3$

e. $\frac{1}{6}$ of 24 = $24 \div 6 = 4$ f. $\frac{1}{4}$ of 16 = $16 \div 4 = 4$

g. $\frac{1}{6}$ of 12 = $12 \div 6 = 2$ h. $\frac{1}{7}$ of 7 = $7 \div 7 = 1$

6.3

1. b. $\frac{7}{12}, \frac{10}{12}$ d. $\frac{6}{9}, \frac{11}{9}$

2. a. $\frac{5}{7}, \frac{5}{9}$ c. $\frac{2}{7}, \frac{2}{5}$

3. Ascending Order

a. $\frac{1}{9}, \frac{2}{9}, \frac{3}{9}, \frac{5}{9}$ b. $\frac{2}{11}, \frac{3}{11}, \frac{5}{11}, \frac{9}{11}$ c. $\frac{1}{7}, \frac{2}{7}, \frac{5}{7}, \frac{6}{7}$

Descending Order

a. $\frac{5}{6}, \frac{4}{6}, \frac{3}{6}, \frac{2}{6}$ b. $\frac{7}{10}, \frac{4}{10}, \frac{2}{10}, \frac{1}{10}$ c. $\frac{5}{6}, \frac{5}{7}, \frac{5}{8}, \frac{5}{9}$

4. a. $\frac{2}{5} < \frac{4}{5}$ b. $\frac{4}{7} = \frac{4}{7}$ c. $\frac{5}{8} > \frac{3}{8}$ d. $\frac{2}{11} < \frac{4}{11}$

e. $\frac{4}{7} > \frac{4}{10}$ f. $\frac{4}{8} < \frac{4}{6}$ g. $\frac{2}{10} > \frac{1}{10}$ h. $\frac{3}{8} > \frac{3}{9}$

5. a. $\frac{1}{3}$ or $\left(\frac{2}{3}\right)$ b. $\left(\frac{2}{3}\right)$ or $\frac{2}{5}$ c. $\left(\frac{3}{5}\right)$ or $\frac{2}{5}$ d. $\frac{6}{12}$ or $\left(\frac{6}{10}\right)$

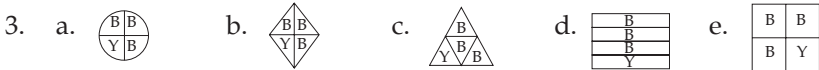
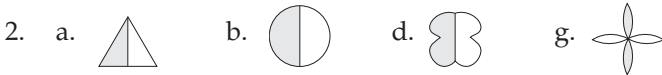
6. a. $\frac{4}{6}, \left(\frac{1}{6}\right), \frac{2}{6}$ b. $\frac{10}{11}, \frac{10}{16}, \left(\frac{10}{24}\right)$

c. $\frac{5}{8}, \left(\frac{5}{12}\right), \frac{5}{10}$ b. $\frac{5}{8}, \frac{7}{8}, \frac{3}{8}, \left(\frac{1}{8}\right)$

Revision

1. a. $\frac{1}{3}$ b. $\frac{1}{2}$ c. $\frac{3}{4}$ d. $\frac{1}{4}$

e. $\frac{3}{4}$ f. $\frac{2}{4}$



4. a. $\frac{1}{8}$ b. $\frac{1}{5}$ c. $\frac{3}{6}$ d. $\frac{8}{12}$

e. $\frac{5}{6}$ f. $\frac{9}{11}$

5. a. Denominator b. Numerator c. 11 d. 50

6. a. $\frac{3}{11}$ b. $\frac{2}{7}$ c. $\frac{8}{10}$ d. $\frac{20}{25}$
7. a. c, unlike b. d, like
8. a. $\frac{6}{13} < \frac{7}{13}$ b. $\frac{18}{25} < \frac{20}{25}$ c. $\frac{4}{7} < \frac{4}{9}$
9. a. $\frac{1}{4}, \left(\frac{1}{7}\right), \frac{1}{3}$ b. $\frac{5}{11}, \left(\frac{5}{12}\right), \frac{5}{7}, \frac{5}{9}$
10. Ascending order = $\frac{2}{10}, \frac{3}{10}, \frac{5}{10}, \frac{9}{10}$
11. Descending order = $\frac{5}{4}, \frac{5}{9}, \frac{5}{11}, \frac{5}{15}$

7.1

1. a. ₹ 36.50 = Thirty six rupees and fifty paise
 b. ₹ 709.25 = Seven hundred nine rupees and twenty five paise
 c. ₹ 320.17 = Thirty hundred twenty rupees and seventeen paise
 d. ₹ 999.99 = Nine hundred ninety nine rupees and ninety nine paise
2. a. ₹ 86.30 b. ₹ 92.04
3. a. ₹ 525 = $525 \times 100 \text{ p} = 52500 \text{ p}$
 b. ₹ 95 = $95 \times 100 \text{ p} = 9500 \text{ p}$
 c. ₹ 102 = $102 \times 100 \text{ p} = 10200 \text{ p}$
 d. ₹ 6 = $6 \times 100 \text{ p} = 600 \text{ p}$
 e. ₹ 0.99 = 99 p
 f. ₹ 46.25 = $46 \times 100 \text{ p} + 25 \text{ p} = 4625 \text{ p}$
 g. ₹ 203.05 = $203 \times 100 \text{ p} + 05 \text{ p} = 20300 \text{ p} + 05 \text{ p} = 20305 \text{ p}$
 h. ₹ 72.50 = $72 \times 100 \text{ p} + 50 \text{ p} = 7200 \text{ p} + 50 \text{ p} = 7250 \text{ p}$
4. a. 250 p = ₹ (250 ÷ 100)
 = ₹ 2.50
- b. 4500 p = ₹ (4500 ÷ 100)
 = ₹ 45
- c. 95 p = ₹ (95 ÷ 100)
 = ₹ 0.95
- d. 8 p = ₹ (8 ÷ 100)
 = ₹ 0.08
- e. 50 p = ₹ (50 ÷ 100)
 = ₹ 0.50
- f. 1708 p = ₹ (1708 ÷ 100)

$$= ₹ 17.08$$

$$\begin{aligned} \text{g. } 2840 \text{ p} &= ₹ (2840 \div 100) \\ &= ₹ 28.40 \end{aligned}$$

$$\begin{aligned} \text{h. } 40845 \text{ p} &= ₹ (40845 \div 100) \\ &= ₹ 408.45 \end{aligned}$$

7.2

$$\begin{array}{r} \text{1. a.} \quad \begin{array}{r} \text{₹} \qquad \text{P} \\ \textcircled{1}\textcircled{1} \quad \textcircled{1} \\ 36 \quad 68 \\ + 34 \quad 36 \\ \hline 61 \quad 04 \end{array} \end{array}$$

$$\begin{array}{r} \text{b.} \quad \begin{array}{r} \text{₹} \qquad \text{P} \\ \textcircled{1}\textcircled{1} \quad \textcircled{1} \\ 138 \quad 79 \\ + 52 \quad 73 \\ \hline 191 \quad 52 \end{array} \end{array}$$

$$\begin{array}{r} \text{c.} \quad \begin{array}{r} \text{₹} \qquad \text{P} \\ \qquad \qquad \textcircled{1} \\ 340 \quad 59 \\ + 9 \quad 16 \\ \hline 349 \quad 75 \end{array} \end{array}$$

$$\begin{array}{r} \text{d.} \quad \begin{array}{r} \text{₹} \qquad \text{P} \\ \textcircled{1}\textcircled{1} \quad \textcircled{1} \\ \textcircled{1}63 \quad 69 \\ + 169 \quad 80 \\ \hline 233 \quad 49 \end{array} \end{array}$$

$$\begin{array}{r} \text{e.} \quad \begin{array}{r} \text{₹} \qquad \text{P} \\ \textcircled{1}\textcircled{1} \quad \textcircled{1} \\ 734 \quad 89 \\ + 356 \quad 36 \\ \hline 1091 \quad 25 \end{array} \end{array}$$

$$\begin{array}{r} \text{f.} \quad \begin{array}{r} \text{₹} \qquad \text{P} \\ \textcircled{1}\textcircled{1} \quad \textcircled{1} \\ 56 \quad 45 \\ 46 \quad 27 \\ + 10 \quad 56 \\ \hline 113 \quad 28 \end{array} \end{array}$$

$$\begin{array}{r} \text{g.} \quad \begin{array}{r} \text{₹} \qquad \text{P} \\ \textcircled{1}\textcircled{1} \quad \textcircled{1} \\ 402 \quad 49 \\ 76 \quad 51 \\ + 8 \quad 08 \\ \hline 487 \quad 08 \end{array} \end{array}$$

$$\begin{array}{r} \text{h.} \quad \begin{array}{r} \text{₹} \qquad \text{P} \\ \textcircled{2}\textcircled{3} \quad \textcircled{3} \\ 225 \quad 95 \\ 138 \quad 59 \\ 301 \quad 88 \\ + 108 \quad 78 \\ \hline 775 \quad 20 \end{array} \end{array}$$

$$\begin{array}{r} \text{2. a.} \quad \begin{array}{r} \text{₹} \qquad \text{P} \\ \textcircled{1}\textcircled{2}\textcircled{1} \quad \textcircled{2} \\ 208 \quad 68 \\ 189 \quad 59 \\ + 87 \quad 05 \\ \hline 485 \quad 32 \end{array} \end{array}$$

$$\begin{array}{r} \text{b.} \quad \begin{array}{r} \text{₹} \qquad \text{P} \\ \textcircled{1}\textcircled{1} \quad \textcircled{1} \\ 29 \quad 49 \\ 31 \quad 21 \\ + 438 \quad 66 \\ \hline 499 \quad 36 \end{array} \end{array}$$

$$\begin{array}{r}
 \text{₹} \qquad \qquad \text{P} \\
 \textcircled{1} \\
 332 \quad 40 \\
 31 \quad 71 \\
 + 205 \quad 54 \\
 \hline
 569 \quad 65
 \end{array}$$

$$\begin{array}{r}
 \text{₹} \qquad \qquad \text{P} \\
 \textcircled{1} \textcircled{2} \textcircled{1} \quad \textcircled{2} \\
 297 \quad 87 \\
 106 \quad 06 \\
 + 548 \quad 58 \\
 \hline
 952 \quad 51
 \end{array}$$

$$\begin{array}{r}
 \text{₹} \qquad \qquad \text{P} \\
 \textcircled{2} \quad \textcircled{1} \\
 0 \quad 55 \\
 0 \quad 85 \\
 + 4 \quad 75 \\
 \hline
 6 \quad 15
 \end{array}$$

$$\begin{array}{r}
 \text{₹} \quad \textcircled{2} \quad \text{P} \quad \textcircled{2} \\
 10 \quad 89 \\
 43 \quad 89 \\
 + 0 \quad 79 \\
 \hline
 55 \quad 57
 \end{array}$$

$$\begin{array}{r}
 \text{₹} \qquad \qquad \text{P} \\
 \textcircled{1} \textcircled{2} \textcircled{1} \quad \textcircled{1} \\
 208 \quad 48 \\
 89 \quad 58 \\
 + 57 \quad 73 \\
 \hline
 355 \quad 79
 \end{array}$$

$$\begin{array}{r}
 \text{₹} \quad \textcircled{1} \quad \text{P} \quad \textcircled{2} \\
 98 \quad 59 \\
 73 \quad 28 \\
 + 0 \quad 96 \\
 \hline
 172 \quad 83
 \end{array}$$

$$\begin{array}{r}
 \text{₹} \qquad \qquad \text{P} \\
 \textcircled{3} \quad \textcircled{2} \\
 0 \quad 89 \\
 \textcircled{2} \quad 0 \quad 78 \\
 28 \quad 75 \\
 + 99 \quad 65 \\
 \hline
 130 \quad 07
 \end{array}$$

$$\begin{array}{r}
 \text{₹} \quad \textcircled{1} \textcircled{2} \textcircled{2} \quad \text{P} \quad \textcircled{2} \\
 309 \quad 33 \\
 32 \quad 98 \\
 69 \quad 50 \\
 + 0 \quad 79 \\
 \hline
 412 \quad 60
 \end{array}$$

7.3

$$\begin{array}{r}
 \text{₹} \qquad \qquad \text{P} \\
 \textcircled{7} \textcircled{11} \quad \textcircled{16} \textcircled{13} \\
 82 \quad 78 \\
 - 56 \quad 95 \\
 \hline
 25 \quad 78
 \end{array}$$

$$\begin{array}{r}
 \text{₹} \quad \textcircled{4} \textcircled{11} \quad \text{P} \quad \textcircled{7} \textcircled{13} \\
 1 \quad 84 \quad 88 \\
 - 142 \quad 79 \\
 \hline
 009 \quad 04
 \end{array}$$

$$\begin{array}{r}
 \text{₹} \qquad \qquad \text{P} \\
 \textcircled{2} \textcircled{12} \quad \textcircled{3} \textcircled{12} \\
 282 \quad 42 \\
 - 225 \quad 24 \\
 \hline
 007 \quad 18
 \end{array}$$

$$\begin{array}{r}
 \text{₹} \quad \textcircled{9} \textcircled{14} \quad \text{P} \quad \textcircled{9} \textcircled{15} \\
 1 \quad 98 \quad 98 \\
 - 39 \quad 67 \\
 \hline
 65 \quad 38
 \end{array}$$

$$\begin{array}{r} \text{e.} \\ \begin{array}{r} \text{₹} \quad \text{P} \\ 7 \overset{\textcircled{5}}{\cancel{6}} \overset{\textcircled{12}}{\cancel{3}} \quad \overset{\textcircled{14}}{\cancel{8}} \overset{\textcircled{12}}{\cancel{2}} \\ - 6 \ 1 \ 8 \quad 9 \ 3 \\ \hline 1 \ 4 \ 4 \quad 5 \ 9 \end{array} \end{array}$$

$$\begin{array}{r} \text{f.} \\ \begin{array}{r} \text{₹} \quad \text{P} \\ \overset{\textcircled{5}}{\cancel{6}} \overset{\textcircled{9}}{\cancel{8}} \overset{\textcircled{16}}{\cancel{7}} \quad \overset{\textcircled{15}}{\cancel{8}} \overset{\textcircled{10}}{\cancel{7}} \\ - 8 \ 9 \quad 7 \ 1 \\ \hline 4 \ 1 \ 7 \quad 8 \ 9 \end{array} \end{array}$$

$$\begin{array}{r} \text{g.} \\ \begin{array}{r} \text{₹} \quad \text{P} \\ \overset{\textcircled{4}}{\cancel{8}} \overset{\textcircled{9}}{\cancel{8}} \overset{\textcircled{17}}{\cancel{8}} \quad \overset{\textcircled{17}}{\cancel{7}} \ 5 \\ - 1 \ 9 \ 9 \quad 8 \ 5 \\ \hline 3 \ 0 \ 8 \quad 9 \ 0 \end{array} \end{array}$$

$$\begin{array}{r} \text{h.} \\ \begin{array}{r} \text{₹} \quad \text{P} \\ \overset{\textcircled{3}}{\cancel{4}} \overset{\textcircled{17}}{\cancel{8}} \overset{\textcircled{10}}{\cancel{7}} \quad \overset{\textcircled{18}}{\cancel{8}} \ 9 \\ - 8 \ 9 \quad 9 \ 9 \\ \hline 3 \ 9 \ 1 \quad 9 \ 0 \end{array} \end{array}$$

$$\begin{array}{r} \text{2. a.} \\ \begin{array}{r} \text{₹} \quad \text{P} \\ \overset{\textcircled{0}}{\cancel{1}} \overset{\textcircled{9}}{\cancel{8}} \overset{\textcircled{11}}{\cancel{2}} \quad \overset{\textcircled{17}}{\cancel{7}} \ 8 \\ - 6 \ 5 \quad 8 \ 5 \\ \hline 3 \ 6 \quad 9 \ 0 \end{array} \end{array}$$

$$\begin{array}{r} \text{b.} \\ \begin{array}{r} \text{₹} \quad \text{P} \\ \overset{\textcircled{2}}{\cancel{8}} \overset{\textcircled{11}}{\cancel{2}} \overset{\textcircled{17}}{\cancel{8}} \quad \overset{\textcircled{9}}{\cancel{8}} \overset{\textcircled{13}}{\cancel{8}} \\ - 2 \ 9 \ 9 \quad 9 \ 9 \\ \hline 0 \ 2 \ 8 \quad 0 \ 4 \end{array} \end{array}$$

$$\begin{array}{r} \text{3.} \\ \begin{array}{r} \text{₹} \quad \text{P} \\ 1 \overset{\textcircled{4}}{\cancel{8}} \quad \overset{\textcircled{10}}{\cancel{8}} \ 8 \\ - 7 \ 5 \\ \hline 1 \ 4 \quad 3 \ 3 \end{array} \end{array}$$

$$\begin{array}{r} \text{4.} \\ \begin{array}{r} \text{₹} \quad \text{P} \\ \overset{\textcircled{2}}{\cancel{8}} \overset{\textcircled{10}}{\cancel{7}} \quad \overset{\textcircled{12}}{\cancel{8}} \overset{\textcircled{10}}{\cancel{8}} \\ - 1 \ 5 \quad 3 \ 5 \\ \hline 1 \ 5 \quad 9 \ 5 \end{array} \end{array}$$

$$\begin{array}{r} \text{5. a.} \\ \begin{array}{r} \text{₹} \quad \text{P} \\ \overset{\textcircled{1}}{\cancel{5}} \overset{\textcircled{1}}{\cancel{9}} \quad \overset{\textcircled{1}}{\cancel{3}} \ 6 \\ + 4 \ 9 \quad 9 \ 9 \\ \hline 1 \ 0 \ 9 \quad 3 \ 5 \end{array} \end{array}$$

$$\begin{array}{r} \begin{array}{r} \text{₹} \quad \text{P} \\ 1 \overset{\textcircled{10}}{\cancel{8}} \overset{\textcircled{8}}{\cancel{9}} \quad \overset{\textcircled{12}}{\cancel{8}} \overset{\textcircled{15}}{\cancel{8}} \\ - 6 \ 8 \quad 9 \ 7 \\ \hline 0 \ 4 \ 0 \quad 3 \ 8 \end{array} \end{array}$$

$$\begin{array}{r} \text{b.} \\ \begin{array}{r} \text{₹} \quad \text{P} \\ \overset{\textcircled{1}}{\cancel{9}} \ 7 \quad \overset{\textcircled{1}}{\cancel{0}} \ 7 \\ + 3 \ 7 \quad 8 \ 9 \\ \hline 1 \ 3 \ 4 \quad 9 \ 6 \end{array} \end{array}$$

$$\begin{array}{r} \begin{array}{r} \text{₹} \quad \text{P} \\ 1 \ 3 \ 4 \quad \overset{\textcircled{8}}{\cancel{9}} \overset{\textcircled{16}}{\cancel{8}} \\ - 4 \ 0 \quad 5 \ 7 \\ \hline 9 \ 4 \quad 3 \ 9 \end{array} \end{array}$$

$$\begin{array}{r} \text{c.} \\ \begin{array}{r} \text{₹} \quad \text{P} \\ \overset{\textcircled{1}}{\cancel{6}} \overset{\textcircled{1}}{\cancel{0}} \ 1 \quad 7 \ 7 \\ + 7 \ 9 \quad 7 \ 2 \\ \hline 6 \ 8 \ 1 \quad 4 \ 9 \end{array} \end{array}$$

$$\begin{array}{r} \begin{array}{r} \text{₹} \quad \text{P} \\ \overset{\textcircled{5}}{\cancel{8}} \overset{\textcircled{17}}{\cancel{8}} \overset{\textcircled{11}}{\cancel{7}} \quad 4 \ 9 \\ - 4 \ 8 \ 9 \quad 0 \ 9 \\ \hline 1 \ 9 \ 2 \quad 4 \ 0 \end{array} \end{array}$$

$$\begin{array}{r} \text{d.} \\ \begin{array}{r} \text{₹} \quad \text{P} \\ 4 \ 5 \ 7 \quad 5 \ 7 \\ + 3 \ 0 \ 8 \quad 0 \ 8 \\ \hline 7 \ 6 \ 5 \quad 6 \ 5 \end{array} \end{array}$$

$$\begin{array}{r} \begin{array}{r} \text{₹} \quad \text{P} \\ 7 \overset{\textcircled{5}}{\cancel{8}} \overset{\textcircled{14}}{\cancel{8}} \quad \overset{\textcircled{15}}{\cancel{8}} \overset{\textcircled{15}}{\cancel{8}} \\ - 3 \ 5 \ 8 \quad 6 \ 7 \\ \hline 4 \ 0 \ 6 \quad 9 \ 8 \end{array} \end{array}$$

6. a.
$$\begin{array}{r} \text{₹} \\ 1 \text{ } \overset{\textcircled{2}}{3} \text{ } \overset{\textcircled{9}}{\text{0}} \\ - \quad 4 \quad 9 \\ \hline 8 \quad 0 \end{array}$$

b.
$$\begin{array}{r} \text{₹} \\ \overset{\textcircled{3}}{4} \text{ } \overset{\textcircled{10}}{\text{0}} \text{ } 8 \\ - \quad 2 \quad 3 \quad 8 \\ \hline 1 \quad 7 \quad 0 \end{array}$$

$$\begin{array}{r} \text{P} \\ \overset{\textcircled{11}}{2} \text{ } \overset{\textcircled{15}}{\text{5}} \\ - \quad 7 \quad 8 \\ \hline 4 \quad 7 \end{array}$$

$$\begin{array}{r} \text{P} \\ \overset{\textcircled{4}}{5} \text{ } \overset{\textcircled{10}}{\text{0}} \\ - \quad 0 \quad 6 \\ \hline 4 \quad 4 \end{array}$$

7. a.
$$\begin{array}{r} \text{₹} \\ \overset{\textcircled{6}}{7} \text{ } \overset{\textcircled{9}}{\text{0}} \text{ } \overset{\textcircled{17}}{\text{8}} \\ - \quad 5 \quad 0 \quad 8 \\ \hline 1 \quad 9 \quad 9 \end{array}$$

b.
$$\begin{array}{r} \text{₹} \\ \overset{\textcircled{1}}{2} \text{ } \overset{\textcircled{9}}{\text{0}} \text{ } \overset{\textcircled{9}}{\text{0}} \\ - \quad 7 \quad 5 \\ \hline 1 \quad 2 \quad 4 \end{array}$$

$$\begin{array}{r} \text{P} \\ \overset{\textcircled{16}}{7} \text{ } \overset{\textcircled{15}}{\text{5}} \\ - \quad 7 \quad 9 \\ \hline 9 \quad 6 \end{array}$$

$$\begin{array}{r} \text{P} \\ \overset{\textcircled{12}}{2} \text{ } 5 \\ - \quad 7 \quad 5 \\ \hline 5 \quad 0 \end{array}$$

7.4

1. Money spent on dupatta = ₹ 150 . 75
 Money spent on lip balm = ₹ 473 . 50
 Money spent on purse = ₹ 875 . 50
 Total money spent = ₹ 150 . 75 + ₹ 473 . 50 + ₹ 875 . 50 =

₹	P
① 1 5 0	① 7 5
4 7 3	5 0
+ 8 7 5	5 0
<u>1 4 9 9</u>	<u>7 5</u>

Hence, ₹ 1499.75 is the total money spent.

2. Total money with Mrs. Fatima Saifi = ₹ 1000
 Money spent for buying medicine = ₹ 875 . 50
 Money left with her = ₹ 1000 – 875 . 50

₹	P
1 ^⑨ / ₀ ^⑨ / ₀ ^⑨ / ₀	^⑩ / ₀ 0
- 8 7 5	5 0
<u>1 2 4</u>	<u>5 0</u>

Hence, ₹ 124.50 is the money left with her.

3. Total money with Meet Kamal = ₹ 500
 Money given to her son = ₹ 368 . 75
 Money left with her = ₹ 500 – 368 . 75

₹	P
^④ / ₅ ^⑨ / ₀ ^⑨ / ₀	^⑨ / ₀ ^⑩ / ₀
- 3 6 8	7 5
<u>1 3 1</u>	<u>2 5</u>

Hence, ₹ 131.25 is the money left with her.

4. Total money with Suraj = ₹ 200
 Money spent on book = ₹ 167.50
 Money saved = ₹ 200 – 167.50

$$\begin{array}{r}
 \text{₹} \\
 \begin{array}{r}
 \textcircled{1} \textcircled{9} \textcircled{9} \\
 \cancel{2} \cancel{0} \cancel{0} \\
 - 167 \\
 \hline
 32
 \end{array}
 \end{array}
 \quad
 \begin{array}{r}
 \text{P} \\
 \begin{array}{r}
 \textcircled{10} \\
 \cancel{0} \\
 0 \\
 - 167.50 \\
 \hline
 32.50
 \end{array}
 \end{array}$$

Hence, he saved ₹ 32.50

5. Cost of ceiling fan = ₹ 1508.50
 Money spent on fan = ₹ 995
 Money paid to the shopkeeper later = ₹ 1508.50 – 995

$$\begin{array}{r}
 \text{₹} \\
 \begin{array}{r}
 \textcircled{4} \textcircled{10} \\
 \cancel{1} \cancel{5} \cancel{0} \\
 - 995 \\
 \hline
 513
 \end{array}
 \end{array}
 \quad
 \begin{array}{r}
 \text{P} \\
 \begin{array}{r}
 1508.50 \\
 - 995 \\
 \hline
 513.50
 \end{array}
 \end{array}$$

Hence, money paid ₹ 513.50 to the shopkeeper.

6. Money with Rajan Kashyap = ₹ 68,500
 Money deposited = ₹ 39,998.75
 Money left = ₹ 68,500 – 39,998.75

$$\begin{array}{r}
 \text{₹} \\
 \begin{array}{r}
 \textcircled{5} \textcircled{17} \textcircled{14} \textcircled{9} \textcircled{9} \\
 \cancel{6} \cancel{8} \cancel{5} \cancel{0} \cancel{0} \\
 - 39998 \\
 \hline
 28501
 \end{array}
 \end{array}
 \quad
 \begin{array}{r}
 \text{P} \\
 \begin{array}{r}
 68500 \\
 - 39998.75 \\
 \hline
 28501.25
 \end{array}
 \end{array}$$

Hence, money left is ₹ 28501.25

7. Total money deposited = ₹ 5000
 Total money withdrawn = ₹ 1650 + 2998.50

$$\begin{array}{r}
 \text{₹} \\
 \begin{array}{r}
 \textcircled{1} \textcircled{1} \\
 1650 \\
 + 2998 \\
 \hline
 4648
 \end{array}
 \end{array}
 \quad
 \begin{array}{r}
 \text{P} \\
 \begin{array}{r}
 5000 \\
 - 4648.50 \\
 \hline
 351.50
 \end{array}
 \end{array}$$

Money left in her account = ₹ 5000 – 4648.50

$$\begin{array}{r}
 \text{₹} \\
 \begin{array}{r}
 \textcircled{4} \textcircled{9} \textcircled{9} \textcircled{9} \\
 \cancel{5} \cancel{0} \cancel{0} \cancel{0} \\
 - 4648 \\
 \hline
 351
 \end{array}
 \end{array}
 \quad
 \begin{array}{r}
 \text{P} \\
 \begin{array}{r}
 \textcircled{10} \\
 \cancel{0} \\
 0 \\
 - 4648.50 \\
 \hline
 351.50
 \end{array}
 \end{array}$$

Hence, money left in her account is ₹ 351.50

8.

₹	P
②①①	①
2 8 5	3 5
6 8 6	0 8
+ 4 7 5	1 2
<hr style="border-top: 1px solid black;"/>	<hr style="border-top: 1px solid black;"/>
1 4 4 6	5 5

₹	P
①①	
1 0 4 9	0 0
+ 1 2 6 6	0 5
<hr style="border-top: 1px solid black;"/>	<hr style="border-top: 1px solid black;"/>
2 3 1 5	0 5

₹	P
2 ⑩ 8 ⑩ 1 ⑮	⑩
8 1 8	0 5
- 1 4 4 6	7 5
<hr style="border-top: 1px solid black;"/>	<hr style="border-top: 1px solid black;"/>
0 8 4 9	5 0

7.5

1. a.

₹	P
②	④
6	4 8
	× 5
<hr style="border-top: 1px solid black;"/>	<hr style="border-top: 1px solid black;"/>
3 2	4 0

b.

₹	P
④	⑥
2 0	5 8
	× 8
<hr style="border-top: 1px solid black;"/>	<hr style="border-top: 1px solid black;"/>
1 6 4	6 4

c.

₹	P
③②⑥④	③
1 5 2 8	6 5
	× 7
<hr style="border-top: 1px solid black;"/>	<hr style="border-top: 1px solid black;"/>
1 0 7 0 0	5 5

d.

₹	P
⑤⑦④	
3 0 6	9 5
	× 8
<hr style="border-top: 1px solid black;"/>	<hr style="border-top: 1px solid black;"/>
2 4 5 5	6 0

e.

₹	P
②③	③
8 6 8	0 5
	× 4
<hr style="border-top: 1px solid black;"/>	<hr style="border-top: 1px solid black;"/>
3 4 7 2	2 0

f.

₹	P
⑧	⑦
5 0 9	0 8
	× 9
<hr style="border-top: 1px solid black;"/>	<hr style="border-top: 1px solid black;"/>
4 5 8 1	7 2

g.

₹	P
2 0 0	1 0
	× 1 2
<hr style="border-top: 1px solid black;"/>	<hr style="border-top: 1px solid black;"/>
4 0 0	2 0
2 0 0 1	0 0
<hr style="border-top: 1px solid black;"/>	<hr style="border-top: 1px solid black;"/>
2 4 0 1	2 0

h.

₹	P
②②②	
3 0 6	6 6
	× 1 4
<hr style="border-top: 1px solid black;"/>	<hr style="border-top: 1px solid black;"/>
1 2 2 ① 6 ①	6 4
+ 3 0 6 6	6 0
<hr style="border-top: 1px solid black;"/>	<hr style="border-top: 1px solid black;"/>
4 2 9 3	2 4

1. a. ₹ P

	③	
0	8 5	
	× 7	
<hr/>		
5	9 5	
<hr/>		

b. ₹ P

	⑤②	④
3 8	4 8	
	× 6	
<hr/>		
2 3 0	8 8	
<hr/>		

c. ₹ P

	②⑧	④
7 2	9 5	
	× 9	
<hr/>		
6 5 6	5 5	
<hr/>		

d. ₹ P

	⑤②⑥	②
3 6 2	8 3	
	× 8	
<hr/>		
2 9 0 2	6 4	
<hr/>		

e. ₹ P

	②	③
2 0 0	4 6	
	× 1 5	
<hr/>		
1 0 0 2	3 0	
<hr/>		
2 0 0 4	6 0	
<hr/>		
3 0 0 6	9 0	
<hr/>		

f. ₹ P

	①①	
3 8 6	9 4	
	× 2 2	
<hr/>		
	7 ^① 7 ^① 3 ^①	8 8
	7 ^①	8 0
<hr/>		
8 5 1 2	6 8	
<hr/>		

g. ₹ P

	①①	
5 9 6	8 4	
	× 3 4	
<hr/>		
	2 ^① 3 8 ^① 7 ^①	3 6
	1 7 9 0 5	2 0
<hr/>		
2 0 2 9 2	5 6	
<hr/>		

h. ₹ P

	②	③
6 0 6	0 8	
	× 2 4	
<hr/>		
2 4 2 4	3 2	
<hr/>		
1 2 1 2 1	6 0	
<hr/>		
1 4 5 4 5	9 2	
<hr/>		

i. ₹ P

	①③	②
1 0 0 2	6 5	
	× 3 5	
<hr/>		
5 0 1 ^① 3	2 5	
<hr/>		
3 0 0 7 9	5 0	
<hr/>		
3 5 0 9 2	7 5	
<hr/>		

2. a.

₹	P
0	8 5
	× 7
<hr/>	
5	9 5
<hr/>	
= ₹ 5.95	

b.

₹	P
3 8	4 8
	× 6
<hr/>	
2 3 0	8 8
<hr/>	
= ₹ 230.88	

c.

₹	P
7 2	9 5
	× 9
<hr/>	
6 5 6	5 5
<hr/>	
= ₹ 656.55	

d.

₹	P
3 6 2	8 3
	× 8
<hr/>	
2 9 0 2	6 4
<hr/>	
= ₹ 2902.64	

e.

₹	P
2 0 0	4 6
	× 1 5
<hr/>	
1 0 0 2	3 0
+ 2 0 0 4	6 0
<hr/>	
3 0 0 6	9 0
<hr/>	
= ₹ 3006.90	

f.

₹	P
3 8 6	9 4
	× 2 2
<hr/>	
7 7 3	8 8
+ 7 7 3 8	8 0
<hr/>	
8 5 1 2	6 8
<hr/>	
= ₹ 8512.68	

g.

₹	P
5 9 6	8 4
	× 3 4
<hr/>	
2 3 8 7	3 6
+1 7 9 0 5	2 0
<hr/>	
2 0 2 9 2	5 6
<hr/>	
= ₹ 20292.56	

h.

₹	P
6 0 6	0 8
	× 2 4
<hr/>	
2 4 2 4	3 2
+1 2 1 2 1	6 0
<hr/>	
1 4 5 4 5	9 2
<hr/>	
= ₹ 14545.92	

i.

₹	P
1 0 0 2	6 5
	× 3 5
<hr/>	
5 0 1 3	2 5
+3 0 0 7 9	5 0
<hr/>	
3 5 0 9 2	7 5
<hr/>	

$$= ₹ 35092.75$$

3. Cost of one hockey = ₹ 295.75
 Cost of 8 honckeyes = ₹ 295.75 × 8

₹	P
(7) (4) (6)	(4)
2 9 5	7 5
	× 8
2 3 6 6	0 0

Hence, cost of 8 hockeys is ₹ 2366.00

4. Cost of 1 book = ₹ 108.75
 Cost of 9 books = ₹ 108.75 × 9

₹	P
(7) (0) (8)	(4)
1 0 8	7 5
	× 9
9 7 8	7 5

Hence, cost of 9 books is ₹ 978.75

5. Cost of 1 inkpot = ₹ 18.25
 Cost of 10 books = ₹ 18.25 × 10

₹	P
1 8	2 5
	× 1 0
0 0	0 0
+ 1 8 2	5 0
1 8 2	5 0

Hence, cost of 10 inkpots is ₹ 182.50

6. Railways fare for 1 person = ₹ 475.75
 Railways fare for 15 person = ₹ 475.75 × 15

$$\begin{array}{r}
 \text{₹} \qquad \text{P} \\
 \textcircled{3} \textcircled{2} \textcircled{3} \quad \textcircled{2} \\
 4 \ 7 \ 5 \quad 7 \ 5 \\
 \times 1 \ 5 \\
 \hline
 2 \textcircled{1} 3 \textcircled{1} 7 \textcircled{1} 8 \textcircled{1} \ 7 \ 5 \\
 + 4 \ 7 \ 5 \ 7 \ 5 \ 0 \\
 \hline
 7 \ 1 \ 3 \ 6 \ 2 \ 5
 \end{array}$$

Hence, railway fare for 15 person is ₹ 7136.25

7. Cost of 1 litre milk = ₹ 74.75
 Cost of 10 litre milk = ₹ 74.75 × 10

$$\begin{array}{r}
 \text{₹} \qquad \text{P} \\
 7 \ 4 \quad 7 \ 5 \\
 \times 1 \ 0 \\
 \hline
 0 \ 0 \ 0 \ 0 \\
 + 7 \ 4 \ 7 \ 5 \ 0 \\
 \hline
 7 \ 4 \ 7 \ 5 \ 0
 \end{array}$$

Hence, cost of 10 litre milk is ₹ 747.50

8. Cost of one table = ₹ 875.80
 Cost of 15 tables = ₹ 875.80 × 15

$$\begin{array}{r}
 \text{₹} \qquad \text{P} \\
 \textcircled{3} \textcircled{2} \textcircled{2} \\
 8 \ 7 \ 5 \quad 5 \ 0 \\
 \times 1 \ 5 \\
 \hline
 4 \textcircled{1} 3 \textcircled{1} 7 \textcircled{1} 7 \textcircled{1} \ 5 \ 0 \\
 + 8 \ 7 \ 5 \ 5 \ 0 \ 0 \\
 \hline
 1 \ 3 \ 1 \ 3 \ 2 \ 0 \ 0
 \end{array}$$

Hence, cost of 15 tables is ₹ 13137.25

7.6

1. a. $5 \overline{) 94.25} (18.85$

$$\begin{array}{r}
 \begin{array}{r}
 94.25 \\
 - 5 \downarrow \\
 \hline
 44 \quad \downarrow \\
 - 40 \quad \downarrow \\
 \hline
 4 \ 2 \quad \downarrow \\
 - 4 \ 0 \quad \downarrow \\
 \hline
 2 \ 5 \\
 2 \ 5 \\
 \hline
 0
 \end{array}
 \end{array}$$

$$Q = ₹ 18.85$$

$$R = 0$$

$$\begin{array}{r} \text{b. } 4 \overline{) 204.40} \text{ (51.10)} \\ \underline{- 20} \downarrow \downarrow \downarrow \\ 04 \downarrow \downarrow \downarrow \\ \underline{- 4} \downarrow \downarrow \downarrow \\ 04 \downarrow \downarrow \downarrow \\ \underline{- 4} \downarrow \downarrow \downarrow \\ 00 \downarrow \downarrow \downarrow \\ \underline{- 0} \downarrow \downarrow \downarrow \\ 0 \end{array}$$

$$Q = ₹ 51.10$$

$$R = 0$$

$$\begin{array}{r} \text{c. } 7 \overline{) 314.44} \text{ (44.92)} \\ \underline{- 28} \downarrow \downarrow \downarrow \\ 34 \downarrow \downarrow \downarrow \\ \underline{- 28} \downarrow \downarrow \downarrow \\ 64 \downarrow \downarrow \downarrow \\ \underline{- 63} \downarrow \downarrow \downarrow \\ 14 \downarrow \downarrow \downarrow \\ \underline{- 14} \downarrow \downarrow \downarrow \\ 0 \end{array}$$

$$Q = ₹ 44.92$$

$$R = 0$$

$$\begin{array}{r} \text{d. } 9 \overline{) 108.72} \text{ (12.08)} \\ \underline{- 9} \downarrow \downarrow \downarrow \\ 18 \downarrow \downarrow \downarrow \\ \underline{- 18} \downarrow \downarrow \downarrow \\ 072 \downarrow \downarrow \downarrow \\ \underline{- 72} \downarrow \downarrow \downarrow \\ 0 \end{array}$$

$$Q = ₹ 12.08$$

$$R = 0$$

$$\begin{array}{r} \text{e. } 8 \overline{) 258.56} \text{ (32.32)} \\ \underline{- 24} \downarrow \downarrow \downarrow \\ 18 \downarrow \downarrow \downarrow \\ \underline{- 16} \downarrow \downarrow \downarrow \\ 25 \downarrow \downarrow \downarrow \\ \underline{- 24} \downarrow \downarrow \downarrow \\ 16 \downarrow \downarrow \downarrow \\ \underline{- 16} \downarrow \downarrow \downarrow \\ 0 \end{array}$$

$$Q = ₹ 32.32$$

$$R = 0$$

$$\begin{array}{r} \text{f. } 11 \overline{) 390.06} \text{ (35.46)} \\ \underline{- 33} \downarrow \downarrow \downarrow \\ 60 \downarrow \downarrow \downarrow \\ \underline{- 55} \downarrow \downarrow \downarrow \\ 50 \downarrow \downarrow \downarrow \\ \underline{- 44} \downarrow \downarrow \downarrow \\ 66 \downarrow \downarrow \downarrow \\ \underline{- 66} \downarrow \downarrow \downarrow \\ 0 \end{array}$$

$$Q = ₹ 35.46$$

$$R = 0$$

$$\begin{array}{r}
 25 \overline{)411.25} \quad (16.45 \\
 \underline{-25} \downarrow \quad \downarrow \downarrow \\
 161 \quad \downarrow \downarrow \\
 \underline{-150} \quad \downarrow \downarrow \\
 112 \quad \downarrow \downarrow \\
 \underline{-100} \quad \downarrow \downarrow \\
 125 \quad \downarrow \downarrow \\
 \underline{-125} \quad \downarrow \downarrow \\
 0
 \end{array}$$

$$\begin{array}{l}
 Q = ₹ 16.45 \\
 R = 0
 \end{array}$$

$$\begin{array}{r}
 20 \overline{)305} \quad (15 \\
 \underline{-20} \downarrow \\
 105 \\
 \underline{-100} \\
 5
 \end{array}
 \quad
 \begin{array}{l}
 Q = ₹ 15 \\
 R = 5
 \end{array}$$

$$\begin{array}{r}
 15 \overline{)643.20} \quad (42.88 \\
 \underline{-60} \downarrow \quad \downarrow \downarrow \\
 43 \quad \downarrow \downarrow \\
 \underline{-30} \quad \downarrow \downarrow \\
 132 \quad \downarrow \downarrow \\
 \underline{-120} \quad \downarrow \downarrow \\
 120 \quad \downarrow \downarrow \\
 \underline{-120} \quad \downarrow \downarrow \\
 0
 \end{array}$$

$$\begin{array}{l}
 Q = 42.88 \\
 R = 0
 \end{array}$$

$$\begin{array}{r}
 12 \overline{)433.80} \quad (36.15 \\
 \underline{-36} \downarrow \quad \downarrow \downarrow \\
 73 \quad \downarrow \downarrow \\
 \underline{-72} \quad \downarrow \downarrow \\
 18 \quad \downarrow \downarrow \\
 \underline{-12} \quad \downarrow \downarrow \\
 60 \quad \downarrow \downarrow \\
 \underline{-60} \quad \downarrow \downarrow \\
 0
 \end{array}$$

$$\begin{array}{l}
 Q = ₹ 36.25 \\
 R = 0
 \end{array}$$

3. Total money distributed among 9 beggars = ₹ 317.25
 Money distributed among each beggar = ₹ 317.25 ÷ 9

$$\begin{array}{r}
 9 \overline{)317.25} \quad (35.25 \\
 \underline{-27} \downarrow \quad \downarrow \downarrow \\
 47 \quad \downarrow \downarrow \\
 \underline{-45} \quad \downarrow \downarrow \\
 22 \quad \downarrow \downarrow \\
 \underline{-18} \quad \downarrow \downarrow \\
 45 \quad \downarrow \downarrow \\
 \underline{-45} \quad \downarrow \downarrow \\
 0
 \end{array}$$

Hence, money distributed among each beggar is ₹ 35.25

4. Internet connection charge for 3 months = ₹ 666.99
 Internet connection charge for 1 months = ₹ 666.99 ÷ 3

$$\begin{array}{r}
 3 \overline{) 666.99} \quad (222.33 \\
 \underline{- 6} \downarrow \\
 06 \downarrow \\
 \underline{- 6} \downarrow \\
 6 \downarrow \\
 \underline{- 6} \downarrow \\
 09 \downarrow \\
 \underline{- 9} \downarrow \\
 09 \\
 \underline{- 9} \\
 0
 \end{array}$$

Hence, internet connection charge for 1 month is ₹ 222.33

5. Cost of 9 brush = ₹ 321.75
 Cost of 1 brush = ₹ 321.75 ÷ 9

$$\begin{array}{r}
 9 \overline{) 321.75} \quad (35.75 \\
 \underline{- 27} \downarrow \\
 051 \downarrow \\
 \underline{- 45} \downarrow \\
 67 \downarrow \\
 \underline{- 63} \downarrow \\
 045 \\
 \underline{- 45} \\
 0
 \end{array}$$

Hence, cost of 1 brush is ₹ 35.75

7.7

S.No	Item	Qty	Price (₹) per kg	Cost (₹)
1.	Onion	2 ½ kg	65	₹ 162.5
2.	Peas	2 kg	30	₹ 60
3.	Potatoes	3 kg	25	₹ 75
4.	Rice	1 kg	70	₹ 70
Total				₹ 367.5

- a. Potatoes c. ₹ 75 + ₹ 162.5 = ₹ 237.5
 b. Rice d. ₹ 60 + ₹ 70 = ₹ 130
 e. ₹ 367.5

b. ₹ 65.25 + 98.25

$$\begin{array}{r}
 \text{₹} \qquad \qquad \text{P} \\
 6^{\textcircled{1}} 5 \qquad 2^{\textcircled{1}} 5 \\
 + 98 \qquad 25 \\
 \hline
 163 \qquad 50 \\
 \hline
 \end{array} = ₹ 163.50$$

c. ₹ 69.50 + 32.50

$$\begin{array}{r}
 \text{₹} \qquad \qquad \text{P} \\
 69 \qquad 50 \\
 - 32 \qquad 50 \\
 \hline
 37 \qquad 00 \\
 \hline
 \end{array} = ₹ 37.00$$

d. ₹ 69.50 + 32.50

$$\begin{array}{r}
 \text{₹} \qquad \qquad \text{P} \\
 7^{\textcircled{6}} 0^{\textcircled{9}} \qquad 5^{\textcircled{14}} 0^{\textcircled{10}} \\
 - 67 \qquad 75 \\
 \hline
 02 \qquad 75 \\
 \hline
 \end{array} = ₹ 2.75$$

6. a. ₹ 235.50 × 4

$$\begin{array}{r}
 \text{₹} \qquad \qquad \text{P} \\
 2^{\textcircled{1}} 3^{\textcircled{2}} 5^{\textcircled{2}} \qquad 50 \\
 \qquad \qquad \times 4 \\
 \hline
 942 \qquad 00 \\
 \hline
 \end{array} = ₹ 942.00$$

b. ₹ 51.75 × 6

$$\begin{array}{r}
 \text{₹} \qquad \qquad \text{P} \\
 5^{\textcircled{1}} 1^{\textcircled{4}} \qquad 7^{\textcircled{3}} 5 \\
 \qquad \qquad \times 6 \\
 \hline
 310 \qquad 50 \\
 \hline
 \end{array} = ₹ 310.50$$

7. a. ₹ 85 ÷ 5

$$\begin{array}{r}
 5 \overline{) 85} (17 \\
 \underline{- 5} \downarrow \\
 35 \\
 \underline{- 35} \\
 0
 \end{array}$$

Q = 17
R = 0

b. ₹ 168 ÷ 4

$$\begin{array}{r} 4 \overline{) 168} \quad (42 \\ - 16 \downarrow \\ \hline 08 \\ - 8 \\ \hline 0 \end{array}$$

Q = 42

R = 0

8. Money spent on cream = ₹ 27.50
 Money spent on Savlon = ₹ 25.50
 Money given to shopkeeper = ₹ 100
 = ₹ 100 - ₹ (27.50 + 25.50)
 = ₹ 100 - ₹ 53.00
 = ₹ 47.00

Hence ₹ 47 he gets back.

9. Price of 1 ticket = ₹ 16.50
 Price of 6 tickets = ₹ 16.50 × 6 = ₹ 99.0
 Hence, she collected ₹ 99 at all
10. Total money donated by 15 girls = ₹ 8610
 Money donated by 1 girl = ₹ 8610 ÷ 15

$$\begin{array}{r} 15 \overline{) 8610} \quad (574 \\ - 75 \downarrow \\ \hline 111 \downarrow \\ - 105 \downarrow \\ \hline 60 \\ - 60 \\ \hline 0 \end{array}$$

Hence, money donated by 1 girl is ₹ 574

8.1

1. a. 6 m = 6 × 100 cm = 600 cm
 b. 12 m = 12 × 100 cm = 1200 cm
 c. 19 m 50 cm = 19 m + 50 cm
 = 19 × 100 cm + 50 cm
 = 1900 cm + 50 cm
 = 1950 cm
 d. 30 m 75 cm = 30 m + 75 cm
 = 30 × 100 cm + 75 cm
 = 3000 cm + 75 cm
 = 3075 cm
2. a. 430 cm = 400 cm + 30 cm

- $= (400 \div 100) \text{ m} + 30 \text{ cm}$
 $= 4 \text{ m} + 30 \text{ cm}$
 $= 4 \text{ m } 30 \text{ cm}$
- b. 8107 cm $= 8100 \text{ cm} + 7 \text{ cm}$
 $= (8100 \div 100) \text{ m} + 7 \text{ cm}$
 $= 81 \text{ m} + 7 \text{ cm}$
 $= 81 \text{ m } 7 \text{ cm}$
- c. 620 cm $= 600 \text{ cm} + 20 \text{ cm}$
 $= (600 \div 100) \text{ m} + 20 \text{ cm}$
 $= 6 \text{ m} + 20 \text{ cm}$
 $= 6 \text{ m } 20 \text{ cm}$
- d. 9000 cm $= (9000 \div 100) \text{ m} = 90 \text{ m}$
3. a. 8 km $= 8 \times 1000 \text{ m} = 8000 \text{ m}$
 b. 6 km $= 6 \times 1000 \text{ m} = 6000 \text{ m}$
 c. 5 km 5 m $= 5 \text{ km} + 5 \text{ m}$
 (As 1 km = 1000 m)
 $= 5 \times 1000 \text{ m} + 5 \text{ m}$
 $= 5000 \text{ m} + 5 \text{ m} = 5005 \text{ m}$
- d. 8 km 800 m $= 8 \text{ km} + 800 \text{ m}$
 $= 8 \times 1000 \text{ m} + 800 \text{ m}$
 $= 8000 \text{ m} + 800 \text{ m} = 8800 \text{ m}$
4. a. 5005 m $= 5000 \text{ m} + 5 \text{ m}$
 (As 1000 m = 1 km)
 $= (5000 \div 1000) \text{ km} + 5 \text{ m}$
 $= 5 \text{ km} + 5 \text{ m} = 5 \text{ km } 5 \text{ m}$
- b. 1833 m $= 1000 \text{ m} + 833 \text{ m}$
 (As 1000 m = 1 km)
 $= (1000 \div 1000) \text{ km} + 833 \text{ m}$
 $= 1 \text{ km} + 833 \text{ m} = 1 \text{ km } 833 \text{ m}$
- c. 2605 m $= 2000 \text{ m} + 605 \text{ m}$
 (As 1000 m = 1 km)
 $= (2000 \div 1000) \text{ km} + 605 \text{ m}$
 $= 2 \text{ km} + 605 \text{ m} = 2 \text{ km } 605 \text{ m}$
- d. 9999 m $= 9000 \text{ m} + 999 \text{ m}$
 (As 1000 m = 1 km)
 $= (9000 \div 1000) \text{ km} + 999 \text{ m}$
 $= 9 \text{ km} + 999 \text{ m} = 9 \text{ km } 999 \text{ m}$
5. a.

$\begin{array}{r} \text{m} \\ 2^{\textcircled{1}} 8 \\ + 2 5 \\ \hline 5 3 \end{array}$	$\begin{array}{r} \text{cm} \\ 2^{\textcircled{1}} 8 \\ 3 9 \\ \hline 6 7 \end{array}$	= 53 m 67 cm
---	--	--------------

b.

	m	cm	
	3 2 ^①	7 ^① 4	
+	2 0	5 7	
	5 3	3 1	= 53 m 31 cm

c.

	km	m	
	5 2	1 6 8	
+	2 6	4 3 0	
	7 8	5 9 8	= 78 km 598 cm

d.

	Km	m	
	1 ^① 5 ^①	9 ^① 8 ^① 4	
+	3 6	1 7 8	
	5 2	1 6 2	= 52 m 162 cm

6. a.

	m	cm
	7 8	8 0
+	2 2	7 5
	5 6	0 5
	56 m 05 cm	

b.

	m	cm
	8 ^⑦ 4 ^⑬	4 ^⑭ 8
-	3 9	6 0
	4 4	8 8
	44 m 88 cm	

c.

	m	cm
	6 9	1 8 5
-	2 7	0 9 4
	4 2	1 9 1

d.

	km	m
	6 ^⑤ 5 ^④	2 ^⑪ 7 ^⑰ 9
-	2 8	4 8 0
	3 6	7 9 9

7. a. Distance b/w Delhi and Agra = 277 km 508 m
 Distance travelled by bus = 167 km 927 m
 Distance need to be covered = 277 km 508 m – 167 km 927 m

	Km	m
	2 7 ^⑥ 7 ^⑱	5 0 ^⑭ 8 ^⑩
-	1 6 7	9 2 7
	1 0 9	5 8 1

Hence, distance needs to be covered is 109 km 581 m.

- b. Total distance to railway station = 13 km 400 m
 Distance covered by biker = 9 km 528 m

Distance left to be covered = 13 km 400 m – 9 km 528 m

$$\begin{array}{r}
 \text{Km} \qquad \qquad \text{m} \\
 13 \overset{\textcircled{12}}{0}00 - 9 \overset{\textcircled{13}}{0} \overset{\textcircled{9}}{0} \overset{\textcircled{10}}{0} \\
 \hline
 3 \quad 8 \quad 7 \quad 2
 \end{array}$$

Distance left out = 3 km 872 m.

- c. Length of bamboo plant = 55 cm
 Length of bamboo plant growth = 10 m 83 cm
 Total length of plant = 10 m 83 cm – 55 cm

$$\begin{array}{r}
 \text{m} \qquad \qquad \text{cm} \\
 10 \overset{\textcircled{1}}{0}83 + 55 \\
 \hline
 11 \quad 1 \quad 3 \quad 8
 \end{array}$$

Hence, total length is 11 km 38 m.

8.2

1. a. 1 kg = 10 × 100 g
 b. 1 kg = 5 × 200 g
 c. 1 kg = 500 g + 500 g = 2 × 500 g
 d. 500 g = 2 × 200 g + 100 g
2. a. 6 kg = 6 × 100 g = 6000 g
 b. 9 kg = 9 × 1000 g = 9000 g
 c. 15 g = 15 × 1000 g = 15000 g
 d. 2 kg 200 g = 2 × 1000 g + 200 g
 = 2000 g + 200 g
 = 2200 g
 e. 5 kg 900 g = 5 × 1000 g + 900 g
 = 5000 g + 900 g
 = 5900 g
 f. 4 kg 305 g = 4 × 1000 g + 305 g
 = 4000 g + 305 g
 = 4305 g
3. a. 3050 g = 3000 g + 50 g
 = (3000 ÷ 1000) kg + 50 g
 = 3 kg + 50 g
 = 3 kg 50 g
 b. 4600 g = 4000 g + 600 g
 = (4000 ÷ 1000) kg + 600 g
 = 4 kg + 600 g = 4 kg 600 g
 c. 5435 g = 5000 g + 435 g
 = (5000 ÷ 1000) kg + 435 g

$$\begin{aligned}
 &= 5 \text{ kg} + 435 = 5 \text{ kg } 435 \text{ g} \\
 \text{d. } 6785 \text{ g} &= 6000 \text{ g} + 785 \text{ g} \\
 &= (6000 \div 1000) \text{ kg} + 785 \text{ g} \\
 &= 6 \text{ kg} + 785 = 6 \text{ kg } 785 \text{ g} \\
 \text{e. } 8405 \text{ g} &= 8000 \text{ g} + 405 \text{ g} \\
 &= (8000 \div 1000) \text{ kg} + 405 \text{ g} \\
 &= 8 \text{ kg} + 405 = 8 \text{ kg } 405 \text{ g} \\
 \text{c. } 9065 \text{ g} &= 9000 \text{ g} + 65 \text{ g} \\
 &= (9000 \div 1000) \text{ kg} + 65 \text{ g} \\
 &= 9 \text{ kg} + 65 = 9 \text{ kg } 65 \text{ g}
 \end{aligned}$$

8.3

1. a.

$$\begin{array}{r}
 \text{kg} \qquad \text{g} \\
 6 \quad 2 \quad 2^{\textcircled{1}} \quad 8 \\
 + 2 \quad 4 \quad 1 \quad 9 \\
 \hline
 8 \quad 6 \quad 4 \quad 7
 \end{array}$$

$$= 8 \text{ kg } 647 \text{ g}$$

c.

$$\begin{array}{r}
 \text{kg} \qquad \text{g} \\
 6^{\textcircled{1}} \quad 8 \quad 0 \quad 2 \\
 + 9 \quad 4 \quad 1 \quad 5 \\
 \hline
 1 \quad 6 \quad 2 \quad 1 \quad 7
 \end{array}$$

$$= 16 \text{ kg } 217 \text{ g}$$

2. a.

$$\begin{array}{r}
 \text{kg} \qquad \text{g} \\
 7 \quad 6^{\textcircled{5}} \quad 1^{\textcircled{10}} \quad 2^{\textcircled{2}} \\
 - 6 \quad 1 \quad 2 \quad 7 \\
 \hline
 1 \quad 4 \quad 8 \quad 5
 \end{array}$$

$$= 1 \text{ kg } 485 \text{ g}$$

c.

$$\begin{array}{r}
 \text{kg} \qquad \text{g} \\
 5^{\textcircled{4}} \quad 0^{\textcircled{10}} \quad 8 \quad 1 \quad 8 \\
 - 1 \quad 1 \quad 6 \quad 1 \quad 8 \\
 \hline
 3 \quad 9 \quad 2 \quad 0 \quad 0
 \end{array}$$

$$= 39 \text{ kg } 200 \text{ g}$$

3. a.

$$\begin{array}{r}
 \text{kg} \qquad \text{g} \\
 5 \quad 3 \quad 1 \quad 2 \\
 - 8 \quad 5 \quad 1 \quad 3 \\
 \hline
 1 \quad 3 \quad 8 \quad 2 \quad 5
 \end{array}$$

$$= 13 \text{ kg } 825 \text{ g}$$

b.

$$\begin{array}{r}
 \text{kg} \qquad \text{g} \\
 4 \quad 3^{\textcircled{1}} \quad 5 \quad 0 \quad 5 \\
 + 3 \quad 9 \quad 1 \quad 2 \\
 \hline
 4 \quad 7 \quad 4 \quad 1 \quad 7
 \end{array}$$

$$= 47 \text{ kg } 417 \text{ g}$$

b.

$$\begin{array}{r}
 \text{kg} \qquad \text{g} \\
 3 \quad 0^{\textcircled{1}} \quad 7 \quad 0 \quad 0 \\
 + 1 \quad 0 \quad 4 \quad 7 \quad 5 \\
 \hline
 4 \quad 1 \quad 1 \quad 7 \quad 5
 \end{array}$$

$$= 41 \text{ kg } 175 \text{ g}$$

b.

$$\begin{array}{r}
 \text{kg} \qquad \text{g} \\
 2 \quad 9 \quad 8^{\textcircled{7}} \quad 0^{\textcircled{9}} \quad 0^{\textcircled{10}} \\
 - 7 \quad 4 \quad 1 \quad 6 \\
 \hline
 2 \quad 2 \quad 3 \quad 8 \quad 4
 \end{array}$$

$$= 22 \text{ kg } 384 \text{ g}$$

d.

$$\begin{array}{r}
 \text{kg} \qquad \text{g} \\
 3 \quad 4^{\textcircled{3}} \quad 4^{\textcircled{14}} \quad 2 \quad 7 \\
 - 1 \quad 2 \quad 9 \quad 0 \quad 0 \\
 \hline
 2 \quad 1 \quad 5 \quad 2 \quad 7
 \end{array}$$

$$= 21 \text{ kg } 527 \text{ g}$$

b.

$$\begin{array}{r}
 \text{kg} \qquad \text{g} \\
 9^{\textcircled{1}} \quad 8 \quad 4 \quad 0 \\
 + 2 \quad 4 \quad 2 \quad 0 \\
 \hline
 1 \quad 2 \quad 2 \quad 6 \quad 0
 \end{array}$$

$$= 12 \text{ kg } 260 \text{ g}$$

$$\begin{array}{r}
 \text{c.} \qquad \text{kg} \qquad \text{g} \\
 2 \ 7 \ 5 \ 5 \ 6 \\
 - \ 7 \ 2 \ 2 \ 1 \\
 \hline
 2 \ 0 \ 3 \ 3 \ 5 \\
 \hline
 = 20 \text{ kg } 335 \text{ g}
 \end{array}$$

$$\begin{array}{r}
 \text{d.} \qquad \text{kg} \qquad \text{g} \\
 2^{\textcircled{1}} \ 1^{\textcircled{10}} \ 0^{\textcircled{9}} \ 0^{\textcircled{10}} \\
 - \ 1 \ 6 \ 4 \ 1 \ 0 \\
 \hline
 4 \ 5 \ 9 \ 0 \\
 \hline
 = 4 \text{ kg } 590 \text{ g}
 \end{array}$$

4. Weight of Komal = 65 kg 600 g
 Weight of Rehana = 55 kg 725 g
 Total weight = 65 kg 600 g + 55 kg 725 g

$$\begin{array}{r}
 \text{kg} \qquad \text{g} \\
 6^{\textcircled{1}} \ 5^{\textcircled{1}} \ 6 \ 0 \ 0 \\
 + \ 5 \ 5 \ 7 \ 2 \ 5 \\
 \hline
 1 \ 2 \ 1 \ 3 \ 2 \ 5 \\
 \hline
 \end{array}$$

Hence 121 kg 325 g is their total weight

5. Quantity of wheat in stock = 90 kg 500 g
 Quantity of wheat sold = 18 kg 900 g
 Quantity of wheat left = 90 kg 500 g + 18 kg 900 g

$$\begin{array}{r}
 \text{kg} \qquad \text{g} \\
 9^{\textcircled{8}} \ 0^{\textcircled{9}} \ 5^{\textcircled{15}} \ 0 \ 0 \\
 - \ 1 \ 8 \ 9 \ 0 \ 0 \\
 \hline
 7 \ 1 \ 6 \ 0 \ 0 \\
 \hline
 \end{array}$$

Hence, 71 kg 600 g is the left over wheat

8.4

1. a. 1000 ml b. 6 c. 500, 2 d. 1000
2. a. 4 l = 4 × 100 ml
 b. 6 l = 6 × 1000 ml = 6000 ml
 c. 9 l = 9 l × 1000 ml = 9000 ml
 d. 6 l 325 ml = 6 l + 325 ml
 = 6 × 1000 ml + 325 ml
 = 6000 ml + 325 ml
 = 6325 ml
 e. 10 l 705 ml = 10 l + 705 ml
 = 10 × 1000 ml + 705 ml
 = 10000 ml + 705 ml
 = 10705 ml
 e. 20 l 20 ml = 20 l + 20 ml
 = 20 × 1000 ml + 20 ml

- $= 20000\text{ ml} + 20\text{ ml}$
 $= 20020\text{ ml}$
3. a. $1570\text{ ml} = 1000\text{ ml} + 570\text{ ml}$
 $= (1000 \div 1000)\text{ l} + 570\text{ ml}$
 $= 1\text{ l} + 570\text{ ml}$
 $= 1\text{ l } 570\text{ ml}$
- b. $2270\text{ ml} = 2000\text{ ml} + 270\text{ ml}$
 $= (2000 \div 1000)\text{ l} + 270\text{ ml}$
 $= 2\text{ l} + 270\text{ ml}$
 $= 2\text{ l } 270\text{ ml}$
- c. $5900\text{ ml} = 5000\text{ ml} + 900\text{ ml}$
 $= (5000 \div 1000)\text{ l} + 900\text{ ml}$
 $= 5\text{ l} + 900\text{ ml}$
 $= 5\text{ l } 900\text{ ml}$
- d. $5035\text{ ml} = 5000\text{ ml} + 35\text{ ml}$
 $= (5000 \div 1000)\text{ l} + 35\text{ ml}$
 $= 5\text{ l} + 35\text{ ml}$
 $= 5\text{ l } 35\text{ ml}$
- e. $8020\text{ ml} = 8000\text{ ml} + 20\text{ ml}$
 $= (8000 \div 1000)\text{ l} + 20\text{ ml}$
 $= 8\text{ l} + 20\text{ ml}$
 $= 8\text{ l } 20\text{ ml}$
- f. $9090\text{ ml} = 9000\text{ ml} + 90\text{ ml}$
 $= (9000 \div 1000)\text{ l} + 90\text{ ml}$
 $= 9\text{ l} + 90\text{ ml}$
 $= 9\text{ l } 90\text{ ml}$

8.5

1. a. $= 10\text{ l } 8\text{ ml}$
- | | | | |
|---|----------------|-----------|--|
| | <i>l</i> | <i>ml</i> | |
| | 6 ^① | 7 0 7 | |
| + | 3 | 3 0 1 | |
| | 1 0 | 0 0 8 | |
| | | | |
- b. $= 16\text{ l } 123\text{ ml}$
- | | | | |
|---|----------------|--------------------|--|
| | <i>l</i> | <i>ml</i> | |
| | 3 ^① | 6 1 ^① 8 | |
| + | 1 2 | 5 0 5 | |
| | 1 6 | 1 2 3 | |
| | | | |
- c. $= 17\text{ l } 330\text{ ml}$
- | | | | |
|---|------------------|--------------------|--|
| | <i>l</i> | <i>ml</i> | |
| | 1 0 ^① | 7 ^① 6 0 | |
| + | 6 | 5 7 0 | |
| | 1 7 | 3 3 0 | |
| | | | |

d. $\begin{array}{r} \text{l} \quad \text{ml} \\ 1 \text{ } 7^{\textcircled{1}} \text{ } 9 \text{ } 1 \text{ } 5 \\ + 2 \text{ } 1 \text{ } 7 \text{ } 0 \text{ } 4 \\ \hline 3 \text{ } 9 \text{ } 6 \text{ } 1 \text{ } 9 \end{array} = 39 \text{ l } 619 \text{ ml}$

2. a.

$$\begin{array}{r} \text{l} \quad \text{ml} \\ 7 \text{ } 4 \text{ } 9^{\textcircled{8}} \text{ } 0^{\textcircled{10}} \\ - 4 \text{ } 2 \text{ } 2 \text{ } 2 \\ \hline 3 \text{ } 2 \text{ } 6 \text{ } 8 \end{array}$$

b.

$$\begin{array}{r} \text{l} \quad \text{ml} \\ 2 \text{ } 2 \text{ } 9^{\textcircled{8}} \text{ } 0^{\textcircled{10}} \text{ } 5 \\ - 2 \text{ } 0 \text{ } 2 \text{ } 9 \text{ } 3 \\ \hline 2 \text{ } 6 \text{ } 1 \text{ } 2 \end{array}$$

c.

$$\begin{array}{r} \text{l} \quad \text{ml} \\ 6 \text{ } 7^{\textcircled{6}} \text{ } 3^{\textcircled{13}} \text{ } 9^{\textcircled{8}} \text{ } 5^{\textcircled{15}} \\ - 5 \text{ } 2 \text{ } 4 \text{ } 1 \text{ } 7 \\ \hline 1 \text{ } 4 \text{ } 9 \text{ } 7 \text{ } 8 \end{array}$$

d.

$$\begin{array}{r} \text{l} \quad \text{ml} \\ 9 \text{ } 2^{\textcircled{1}} \text{ } 1^{\textcircled{10}} \text{ } 0^{\textcircled{10}} \text{ } 7 \\ - 8 \text{ } 0 \text{ } 5 \text{ } 9 \text{ } 5 \\ \hline 1 \text{ } 1 \text{ } 5 \text{ } 1 \text{ } 2 \end{array}$$

3. a.

$$\begin{array}{r} \text{l} \quad \text{ml} \\ 8^{\textcircled{1}} \text{ } 1^{\textcircled{1}} \text{ } 7 \text{ } 0 \\ + 7 \text{ } 8 \text{ } 5 \text{ } 0 \\ \hline 1 \text{ } 6 \text{ } 0 \text{ } 2 \text{ } 0 \end{array}$$

$$\begin{array}{r} \text{l} \quad \text{ml} \\ 8^{\textcircled{7}} \text{ } 1^{\textcircled{11}} \text{ } 7 \text{ } 0 \\ - 7 \text{ } 8 \text{ } 5 \text{ } 0 \\ \hline 0 \text{ } 3 \text{ } 2 \text{ } 0 \end{array}$$

b.

$$\begin{array}{r} \text{l} \quad \text{ml} \\ 3 \text{ } 2^{\textcircled{1}} \text{ } 7 \text{ } 9 \text{ } 5 \\ + 1 \text{ } 0 \text{ } 7 \text{ } 0 \text{ } 0 \\ \hline 4 \text{ } 3 \text{ } 4 \text{ } 9 \text{ } 5 \end{array}$$

$$\begin{array}{r} \text{l} \quad \text{ml} \\ 3 \text{ } 2 \text{ } 7 \text{ } 9 \text{ } 5 \\ - 1 \text{ } 0 \text{ } 7 \text{ } 0 \text{ } 0 \\ \hline 2 \text{ } 2 \text{ } 0 \text{ } 9 \text{ } 5 \end{array}$$

4.

Qty of coconut oil = 90 l 925 ml
 Qty of more coconut oil = 25 l 800 ml
 Total qty of coconut oil = 90 l 925 ml + 25 l 800 ml

$$\begin{array}{r} \text{l} \quad \text{ml} \\ 9 \text{ } 0^{\textcircled{1}} \text{ } 9 \text{ } 2 \text{ } 5 \\ + 2 \text{ } 5 \text{ } 8 \text{ } 0 \text{ } 0 \\ \hline 1 \text{ } 1 \text{ } 6 \text{ } 7 \text{ } 2 \text{ } 5 \end{array}$$

Total qty of coconut oil is 116 l 725 ml

5.

Total qty of water = 6 l 550 ml
 Qty of water drank = 5 l 250 ml

$$\begin{array}{r} \text{l} \quad \text{ml} \\ 6 \text{ } 5 \text{ } 5 \text{ } 0 \\ - 5 \text{ } 2 \text{ } 5 \text{ } 0 \\ \hline 1 \text{ } 3 \text{ } 0 \text{ } 0 \end{array}$$

Hence, qty of water is left 1 l 300 ml

Revison

1. a. 2480 g = 2 kg 480 g
 b. 3427 ml = 3 l 427 ml
 c. 5 m 70 cm = 570 cm
 d. 312 cm = 3 m 12 cm
 e. 5261 m = 5 km 261 m
 f. 72 l = 72000 ml
2. a. m b. kg c. km d. l
3. Length of track = 300 m
 No. of rounds taken by Kimsi = 2
 Total distance covered each day = 2×300
 = 600 m
4. Quantity of water in can = 3 l 500 ml
 Quantity of water left in can = 450 ml
 Quantity of water used = 3 l 500 ml + 450 ml

l	ml	
3	500	
	+ 450	
-	450	
3	050	

Hence quantity of water used in 3 l 50 ml

9.1

- a. 5 hrs = 5×60 mins (As 1 hr = 60 mins)
 = 300 mins
- b. 5 days = 5×24 hrs
 (1 day = 24 hrs) = 120 hrs
- c. 3 days = $3 \times 24 = 72$ hrs
 (As 1 day = 24 hrs) = 72×60
 (As 1 hrs = 60 min) = 4320 mins
- d. 8 hrs = $8 \times 60 = 480$ mins
 (As 1 hr = 60 mins)

9.2

1. a. 9 : 15 = Quarter past 9
 a. 12 : 15 = Quarter past 12
 a. 3 : 15 = Quarter past 3
 a. 7 : 15 = Quarter past 7
2. a. 11.15 =



b. 9:15



c. Quarter Past 5



9.2

1. a. 12 : 45 = Quarter to 1 b. 10 : 45 = Quarter to 11
 c. 3 : 45 = Quarter to 4 d. 8 : 45 = Quarter to 9
2. a. 5:45 b. Quarter to 3



c. Quarter to 10



9.4

1. a. 9 : 30 = Half past 9 b. 7 : 30 = Half past 7
 c. 1 : 30 = Half past 1 d. 11 : 30 = Half past 11
 e. 4 : 30 = Half past 4 f. 2 : 30 = Half past 2

9.5

1. b. 11 : 00 = 11 o'clock c. 8 : 00 = 8 o'clock
 d. 1 : 00 = 1 o'clock e. 5 : 00 = 5 o'clock
 f. 9 : 00 = 9 o'clock

9.6

- b. 9 : 25 = 25 mins past 9 c. 11 : 15 = Quarter past 11
 d. 10 : 40 = 20 mins past 10 e. 4 : 05 = 5 mins past 4
 f. 1 : 55 = 5 mins to 2

9.7

- a. 3, 6, 6 : 15 b. 9, 6, 6 : 45 c. 12, 7, 7 : 00 d. 6, 10, 10:30
 e. 12, 5, 5 : 00 f. 9, 5, 5 : 45 g. 6, 7, 7 : 30 h. 12, 9, 9 : 00

9.8

1. a. 4 b. 8 April c. Saturday d. 21 April
 2. a. four b. Saturday c. Thursday d. Thursday e. Friday

3.
$$\begin{array}{r} 4 \overline{) 2024} \text{ (506)} \\ \underline{-20} \\ 024 \\ \underline{-24} \\ 0 \end{array}$$

On dividing 2024 by 4, the remainder is 0.
Hence, 2024 is a leap year.

Revision

1. a. Draw hour hand at 4 = 4 o'clock
- b. Draw hour hand at 6 = 6 o'clock
- c. Draw hour hand at 10 = 10 o'clock

Min. hands at hr-hand at

2. a. 5 o'clock 12 5
- b. 9 o'clock 12 9
- c. 3 : 20 4 b/w 2 & 3
- d. 1 : 45 9 b/w 1 & 2
- e. 12 : 00 12 12
3. a. 8 : 30



- b. 10 : 20



- c. Half past 6



4. a. 15 mins passed b. 25 mins passed
- c. 35 mins passed d. 45 mins passed
5. a. 1 hrs b. 3 hrs c. 6 hrs
6. a. 6 : 00 am b. 7 : 30 P.m. c. 1 : 15 P.m. d. 10 : 45 P.m.
7. b. 19 January 1999 c. 30 December 2023
- d. 12 August 2012

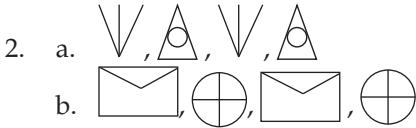
10.1

1. a. ✓ b. ✗ c. ✓ d. ✓
2. Do it yourself

10.2


1. a. 102, 104, 106, 108, 110, 112, 114, 116, 118

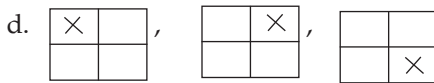
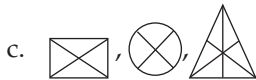
- b. 315, 320, 325, 330, 335, 340, 345, 350, 355
- c. 550, 600, 650, 700, 750, 800, 850, 900, 950
- d. 100, 200, 300, 400, 500, 600, 700, 800, 900



- c. 20, 25, 30, 35, 40
- d. 100, 75, 50, 25
- e. 15, 17, 19, 21
- f. 19, 17, 15, 13

- 3. a. 380, 360, 340, 320
- b. 218, 215, 212, 209
- c. 300000, 3000000, 30000000
- d. GHI, IHG, JKL, LKJ
- e. 55 E, 66 F, 77 G

- 4. a. 
- b. + + + + , + + + + + , + + + + + +



Revision

- 1. a. Yes, one vertical line of symmetry
- b. Yes
- c. Yes, one vertical line of symmetry
- d. Yes, 2 lines os symmetrical
- e. Not symmetrical
- f. 2 line of symmetrical

2. Do it yourself




- 4. a. 6^{+2} , 8^{+3} , 11^{+4} , 15^{+5} , 20^{+6} , 26^{+7} , 33
- b. 7^{+10} , 17^{+20} , 37^{+30} , 67^{+40} , 107^{+50} , 157^{+60} , 217
- c. AZ, BY, CX, DW, EV, FU
- d. A25, B50, C75, D100, E125, F150

5. Do it yourself

11.1

- 1. K, M, X

2. A, B, C, D
3. a. PQ, QR, RP
b. AB, BC, CD, DA, AC
c. KR, RL, LP, PM, MQ, ON, NO, OK, OP, QR, KL, LM, MN, KN.
4. a. CD, AB b. AD, BC c. AC, BD
5. 1 line segment can pass through two points. 1. \overline{MN} 
6. a. Position b. Point c. \overleftrightarrow{AB} d. two e. no
f. fixed g. one h. AB

11.2

1-4. Do it yourself




11.3

- a. circle b. Rectangle c. Rectangle d. circle
- e. Triangle f. Rectangle g. Rectangle h. Square
2. a. 3, 3 b. 4, 4 c. equal d. opposite e. no, no
3. a. 3 b. 6 c. 9
4. a. 6 b. 5 c. 8 d. 8

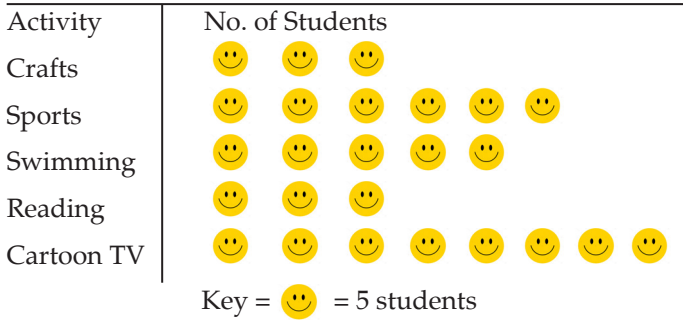
11.4

1. a. curved b. plane c. curved d. Plane
2. a. cube b. cylinder c. cylinder d. Sphere
e. Sphere f. cube g. cone h. cylinder

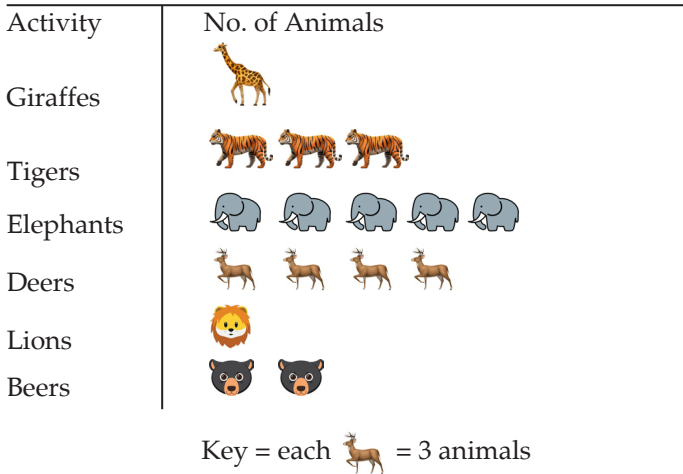
12.1

1. Each  = pineapples  = 3 pineapples
 - a. 6  = $6 \times 6 = 36$ pineapples
 - b. 2 pineapples = $2 \times 6 = 12$
 $1/2$ pineapple = 3
 $\therefore 12 + 3 = 15$ Pineapples
 - c. 4 pineapples = $4 \times 6 = 24$
 - d. 5 pineapples = $5 \times 6 = 30$
 $1/2$ pineapples = 3 = $30 + 3 = 33$
2. Each child = 8 children
 - a. $4 \times 8 = 32$ b. $5 \times 8 = 40$
 $1/2$ child = 4
 $= 40 + 4 = 44$ children

3. Favourite Summer Vacation Activity



4. Animals in Zoo



5. a. Swimming b. Tennis
 c. Tennis = 20^{10+10} Hockey = $5^{10+10+10+10+10+5}$
 $55-20 = 35$
 d. $30 = 10 + 10 + 10$ e. $55 + 30 + 20 + 60 = 165$

12.2

1. Favourite film star	Tally marks	No. of boys
Salman Khan		5
Alia Bhatt		7
Akshay Kumar		8
Rakul Preet Kaur		4

a. 8 b. 5 c. Akshay kumar

2. Movie Type	Tally marks	No. of Children
Horror		7
Cartoon		12
Action		6
Comedy		7

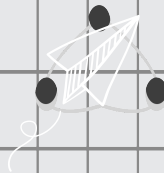
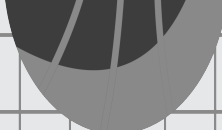
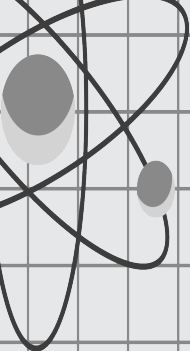
a. 7 b. 6 c. 12 d. Horror and comedy
e. Cartoon f. action

12.3

1. a. Waseem b. Lee c. $25 - 10 = 15$ d. 15
2. a. Pihu and Jooly b. Mahi c. 120 m
d. Nidhi = 125 m Jooly = 75 m
 $125 - 75 = 50$ m

Revision

1. a. 6 b. 3^{2+1} c. 6
d. 17 e. Tobbu = 6 Imli = 3
 $= 6 - 3 = 3$
- | 2. Game | Tally marks | No. of children |
|-----------|-------------|-----------------|
| Badminton | | 6 |
| Cricket | | 11 |
| Hockey | | 7 |
| Ludo | | 9 |
| Carrom | | 5 |
- a. 7 b. 9 c. ||| ||| ||| ||| ||| ||| |||
d. cricket e. carrom f. No
3. a. $10 + 8 + 6 + 4 + 5 = 33$
b. Comics = 6 Story = 8
 $8 - 6 = 2$
c. Magazine



$$f(a+b)=c$$

$$x = \sqrt{\frac{a}{c}} = \frac{HB}{a}$$

$$A = \frac{b+c}{d}$$

$$+25 \quad E=mc^2$$

$$\Sigma f(a+b)=c$$

$$(x+y)^2 - (x-y)$$

$$x = \sqrt{c+25}$$

$$A = \frac{ab+c}{d}$$



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