



Brilliant Mathematics

Teacher's Manual

Class III

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Mathematics - III

Chapter 1 : Revision

Exercise 1A

1. (a) Eight hundred and six
(b) Nine hundred and twenty one
(c) Nine hundred ninety nine
(d) Six hundred
2. (a) 430 (b) 309 (c) 228 (d) 906
3. (a) 172, 182, 192, 202 (b) 410, 435, 460, 485
(c) 435, 440, 445, 450 (d) 951, 956, 961, 966
4. (a) 10 (b) 100 (c) 99 (d) 999
5. (a) < (b) > (c) < (d) > (e) < (f) <
6. Predecessor Successor
- (a) 104 106
(b) 147 149
(c) 298 300
(d) 277 279
7. (a) 299, 331, 546, 650, 736 (b) 695, 771, 825, 881, 890
8. (a) 312, 231, 211, 121, 112 (b) 982, 928, 829, 298, 289
9. (a) 736 (b) 803 (c) 4, 8, 5 (d) 7, 0, 8
10. (a) 975 (b) 812 (c) 998 (d) 766
11. (a) 183 (b) 186 (c) 125 (d) 77
12. (a) 8 (b) 1 3 (c) 1 1 3
 $\times 7$ $\times 8$ $\times 8$
 5 6 1 0 4 9 0 4
- (d) 3 8 (e) 4 5 (f) 1 2 5
 $\times 9$ $\times 6$ $\times 5$
 3 4 2 2 7 0 6 2 5
13. (a) $36 \div 4 = 9$ (b) $81 \div 9 = 9$ (c) $72 \div 8 = 9$

10. Total length of rope	59 m 37 cm
Length of black rope	– 35 m 25 cm
Length of yellow rope	<u>24 m 12 cm</u>
11. Weight carried by coolie	19 kg 368 g
Total weight carried by coolie	+ 22 kg 517 g
	<u>14 kg 885 g</u>
12. Qty of Mustard oil	50 lt 400 ml
Qty sold by shopkeeper	– 21 lt 375 ml
Qty of mustard oil left	<u>29 lt 025 ml</u>
13. Milk collected by Rajesh	9 lt 750 ml
Form dairy farms	+ 5 lt 500 ml
Total Qty of milk collected	<u>15 lt 250 ml</u>
14. Earning of Vijay on 1st day	₹ 2 1 5
Earning of Vijay on II nd day	₹ 2 7 2
Earning of Vijay on III rd day	+ ₹ 1 7 8
Total money earned	<u>₹ 6 6 5</u>
15. Money given to shopkeeper by Riya	₹ 100 . 00
Money returned by shopkeeper	– ₹ 84 . 50
Price of notebook	<u>₹ 15 . 50</u>

Exercise 1C

- (a) 3:30 (b) 7:15 (c) 4:45
- January March May July
August October December
- Cylinder, Cuboid, Sphere, Cone,
Cylinder Cube
- (a) 40 (b) Ajay , 50 (c) Anshul, 20

Chapter 2 : Number Notation

Exercise 2A

- (b) 2005 Two thousand five
(c) 5455 Five thousand fifty five
(d) 8006 Eight thousand and six
- (a) 5005 Five thousand and five
(b) 7608 Seven thousand six hundred and eight
(c) 8675 Eight thousand six hundred and seventy five
(d) 2350 Two thousand three hundred and fifty
- (a) 7905 (b) 9012 (c) 1003 (d) 2824
- (a) 5, 9, 0, 6 (b) 1, 7, 0, 0 (c) 3, 0, 3, 0 (d) 8, 1, 5, 0
- (a) 5013 (b) 7070 (c) 9683 (d) 1001
- (a) 4000 (b) 400 (c) 4 (d) 40
- Do yourself
- (a) 5570, 5571, 5572 (b) 6701, 6702, 6703, 6704
(c) 7010, 7011, 7012, 7013 (d) 3807, 3808, 3809, 3810

Exercise 2B

- | Place value | Face Value |
|-------------|------------|
| (a) 70 | 7 |
| (b) 5 | 5 |
| (c) 5000 | 5 |
| (d) 30 | 3 |
- | Successor | Predecessor |
|-----------|-------------|
| (a) 8466 | 8464 |
| (b) 7240 | 7238 |
| (c) 5322 | 5320 |
| (d) 1000 | 998 |
- (a) $8000 + 0 + 10 + 7$ (b) $9000 + 600 + 20 + 5$
(c) $2000 + 800 + 0 + 2$ (d) $3000 + 100 + 20 + 5$
- (a) 7189 (b) 5015 (c) 8909 (d) 3001
- (a) 4089, 4091 (b) 9301, 9291, 9281
(c) 8199, 8197, 8195 (d) 8301, 8201, 8101
- (a) 8 (b) 5000 (c) 10 (d) 0
(e) 0 (f) 0

Exercise 2C

1. (a) $>$ (b) $>$ (c) $<$ (d) $<$ (e) $<$ (f) $>$
2. (a) 3986, 4537, 5576, 6675, 8984
(b) 2865, 5423, 7345, 8367, 9835
(c) 1989, 2354, 3398, 5932, 7654
(d) 1254, 3256, 5736, 6732, 7325
3. (a) 9875, 8265, 6835, 3675, 2375
(b) 8675, 7236, 6734, 5489, 4567
(c) 8936, 6789, 5675, 4356, 3287
(d) 8385, 8375, 8365, 8325, 8315
4. (a) 1699 (b) 1003 (c) 3185 (d) 5129
5. (a) 8395 (b) 6521 (c) 3925 (d) 6521
6. (a) 3057 (b) 1589 (c) 5677 (d) 3068
7. (a) 1089 (b) 4058 (c) 1048 (d) 3059
8. (a) 999 Yes, it is successor of 999
 $\begin{array}{r} + 1 \\ \hline 1000 \end{array}$ Yes, it is smallest number of four digits.

Chapter 3 : Ordinal Numbers and Roman Numerals

Exercise 3A

1. (a) third (b) 26th (c) fifth (d) tenth
(e) twelfth, seventh

Exercise 3B

1. (a) $5 + 1 = VI$ (b) $10 + 3 = XIII$
(c) $10 + 5 = XV$ (d) $10 + 10 + (5-1) = XXIV$
(e) $10 + 10 + 5 + 1 + 1 + 1 = XXVIII$
(f) $10 + 10 + 10 + 3 = XXXIII$
(g) $50 - 10 = XL$ (h) $50 + 10 + (5-1) = LXIV$
2. (a) $5 + 1 = 6$ (b) $(10 - 1) = 9$
(c) $10 + 5 = 15$ (d) $(50 - 10) = 40$
(e) $(100 - 10) + 1 = 91$ (f) $(10 + 10 + 10) = 30$
(g) $10 + 10 + (10 - 1) = 29$ (h) $10 + 5 + 1 + 1 = 17$

3. (a) $50 + 10 + 5 = \text{LXV}$ (b) $100 + 10 + 5 + 1 = \text{CXVI}$
 (c) $100 + 100 + 10 + 10 + 10 = \text{CCXXX}$
 (d) $100 + 100 + 100 + 50 + 10 + 10 + 10 + 5$
 $= \text{CCCLXXXV}$
 (e) $500 + 100 + 100 + 100 + (50 - 10) + 5 + 1$
 $= \text{DCCCXLVI}$
4. (a) $(50 - 10) + 1 + 1 = 52$ fifty two
 (b) $(100 - 10) + 5 = 95$ Ninety five
 (c) $(50 - 10) + 5 + 1 = 46$ forty six
 (d) $(10 + 10 + 1 + 1) = 22$ Twenty two
 (e) $(50 + 10 + 10) = 70$ Seventy

Chapter 4 : Addition

Exercise 4A

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

Exercise 4B

1. (a) $\begin{array}{r} \text{Th} \quad \text{H T O} \\ \textcircled{1} \quad \textcircled{1} \\ 8 \quad 6 \quad 5 \quad 4 \\ + 7 \quad 8 \quad 5 \\ \hline 9 \quad 4 \quad 3 \quad 9 \end{array}$	(b) $\begin{array}{r} \text{Th} \quad \text{H T O} \\ \textcircled{1} \quad \textcircled{1} \textcircled{1} \\ 7 \quad 2 \quad 6 \quad 8 \\ + 1 \quad 9 \quad 3 \quad 4 \\ \hline 9 \quad 2 \quad 0 \quad 2 \end{array}$	(c) $\begin{array}{r} \text{Th} \quad \text{H T O} \\ \textcircled{1} \quad \textcircled{1} \textcircled{1} \\ 6 \quad 8 \quad 9 \quad 4 \\ + 3 \quad 4 \quad 9 \quad 8 \\ \hline 10 \quad 3 \quad 9 \quad 2 \end{array}$
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(d) $\begin{array}{r} \text{Th} \quad \text{H T O} \\ \textcircled{1} \quad \textcircled{1} \\ 8 \quad 6 \quad 4 \quad 5 \\ + 7 \quad 8 \quad 3 \quad 7 \\ \hline 16 \quad 4 \quad 8 \quad 2 \end{array}$	(e) $\begin{array}{r} \text{Th} \quad \text{H T O} \\ \textcircled{1} \quad \textcircled{1} \textcircled{2} \\ 6 \quad 9 \quad 4 \quad 5 \\ + 2 \quad 3 \quad 6 \\ \quad \quad 4 \quad 4 \quad 2 \\ \quad \quad + 2 \quad 8 \\ \hline 7 \quad 6 \quad 5 \quad 1 \end{array}$	(f) $\begin{array}{r} \text{Th} \quad \text{H T O} \\ \textcircled{1} \quad \textcircled{1} \textcircled{1} \\ 8 \quad 6 \quad 5 \quad 2 \\ \quad \quad 2 \quad 1 \quad 7 \quad 5 \\ \quad \quad \quad + 3 \quad 2 \quad 8 \\ \hline 11 \quad 1 \quad 5 \quad 5 \end{array}$
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2. (a) $\begin{array}{r} \textcircled{1} \quad \textcircled{1} \\ 1 \quad 4 \quad 2 \quad 5 \\ \quad \quad 8 \quad 1 \quad 6 \\ + 1 \quad 2 \quad 3 \quad 5 \\ \hline 3 \quad 4 \quad 7 \quad 6 \end{array}$	(b) $\begin{array}{r} \textcircled{1} \textcircled{1} \\ 3 \quad 2 \quad 7 \quad 8 \\ \quad \quad 2 \quad 1 \quad 4 \quad 5 \\ + 3 \quad 2 \quad 6 \\ \hline 5 \quad 7 \quad 4 \quad 9 \end{array}$	(c) $\begin{array}{r} \textcircled{1} \textcircled{2} \textcircled{2} \\ 1 \quad 9 \quad 9 \quad 9 \\ \quad \quad 2 \quad 0 \quad 0 \quad 0 \\ \quad \quad \quad 9 \quad 9 \\ \quad \quad \quad \quad + 8 \\ \hline 4 \quad 1 \quad 0 \quad 6 \end{array}$	(d) $\begin{array}{r} \textcircled{2} \textcircled{2} \\ 6 \quad 5 \quad 8 \quad 3 \\ \quad \quad 1 \quad 7 \quad 9 \quad 1 \\ \quad \quad \quad + 8 \quad 7 \quad 0 \\ \hline 9 \quad 2 \quad 4 \quad 4 \end{array}$
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3. (a) $\begin{array}{r} \textcircled{1} \textcircled{2} \textcircled{2} \\ 8 \quad 8 \quad 8 \quad 8 \\ \quad \quad 7 \quad 7 \quad 7 \\ \quad \quad \quad 1 \quad 5 \quad 5 \\ \quad \quad \quad \quad + 3 \quad 2 \\ \hline 9 \quad 8 \quad 5 \quad 2 \end{array}$	(b) $\begin{array}{r} \textcircled{1} \textcircled{2} \textcircled{2} \\ 6 \quad 5 \quad 3 \quad 8 \\ \quad \quad 1 \quad 7 \quad 2 \quad 0 \\ \quad \quad \quad 9 \quad 6 \\ \quad \quad \quad \quad + 1 \quad 0 \quad 5 \quad 6 \\ \hline 9 \quad 4 \quad 1 \quad 0 \end{array}$	(c) $\begin{array}{r} \textcircled{2} \textcircled{1} \\ 2 \quad 0 \quad 8 \quad 6 \\ \quad \quad 7 \quad 2 \quad 3 \quad 4 \\ \quad \quad \quad 5 \quad 4 \\ \quad \quad \quad \quad + 5 \quad 2 \\ \hline 9 \quad 4 \quad 2 \quad 6 \end{array}$	(d) $\begin{array}{r} \textcircled{2} \textcircled{2} \textcircled{2} \\ 2 \quad 2 \quad 4 \quad 6 \\ \quad \quad 7 \quad 1 \quad 5 \\ \quad \quad \quad 8 \quad 8 \quad 4 \\ \quad \quad \quad \quad + 1 \quad 5 \quad 9 \\ \hline 4 \quad 0 \quad 0 \quad 4 \end{array}$
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Exercise 4C

1. No. of goats in village	2 5 9 2
No. of cows in village	1 7 8 9
No. of buffaloes in village	+ 3 8 8 9
Total cattle in village	<u>8 2 7 0</u>

2. No. of soaps made on Ist day	3 6 3 8
No. of soaps made on IInd day	3 7 0 9
No. soaps made on IIIrd day	+ 2 1 8 5
Total number of soap cakes made in factory	<u>9 5 3 2</u> soaps
3. No. of male teachers	4 8 7 9
No. of female teachers	+ 4 7 2 9
Total no. of teachers in village	<u>9 6 0 8</u>
4. No. of men in village	1 6 3 9
No. of women in village	1 8 9 4
No. of children in village	+ 4 2 3 0
Total population of village	<u>7 7 6 3</u>
5. No. of apples in fruit shop	1 4 8 9
No. of mangoes in shop	1 7 4 3
No. of oranges in shop	+ 4 2 3 1
Total no. of fruits in shop	<u>7 4 6 3</u>
6. No. of bags of rice	3 8 9 8
No. of bags of wheat	2 3 6 6
No. of bags of sugar	+ 1 8 5 4
Total no. of bags	<u>8 1 1 8</u> bags
7. No. of persons visited zoo on Sunday	2 4 8 3
No. of persons visited zoo on Monday	2 8 2 4
No. of persons visited zoo on Wed	+ 1 7 9 8
Total no. of persons visited zoo in three days.	<u>7 1 0 5</u>
8. No. of votes polled for Yusuf	3 8 8 4
No. of votes polled for laxmikant	3 8 9 5
No. of votes polled for other	+ 5 3 4 5
Total votes polled	<u>1 3 1 2 4</u> votes

9. (i) Cost of cooler	₹ 3 4 5 0
Cost of almirah more than cooler	<u>+ ₹ 1 8 7 5</u>
Cost of almirah	<u>₹ 5 3 2 5</u>

(ii) Total cost of almirah and cooler = 5325 + 3450
= ₹ 8775

10. Total number of mangoes get from	2 2 0 8
three farms =	4 6 0 5
	<u>+ 2 5 0 0</u>
	<u>9 3 1 3</u> mangoes

Chapter 5 : Subtraction

Exercise 5A

1. (a)	(b)	(c)
Th H T O	Th H T O	Th H T O
8 7 0 6	5 8 0 0	6 5 3 5
<u>- 4 2 0 2</u>	<u>- 2 3 0 0</u>	<u>- 2 4 1 2</u>
<u>4 5 0 4</u>	<u>3 5 0 0</u>	<u>4 1 2 3</u>

(d)	(e)	(f)
Th H T O	Th H T O	Th H T O
5 8 7 9	9 7 3 5	5 4 6 8
<u>- 5 2 3 5</u>	<u>- 7 1 1 4</u>	<u>- 2 3 4 8</u>
<u>0 6 4 4</u>	<u>2 6 2 1</u>	<u>3 1 2 0</u>

2. (a)	(b)	(c)
5 4 6 7	4 7 9 8	8 9 7 9
<u>- 1 2 4 6</u>	<u>- 2 5 4 5</u>	<u>- 7 2 5 9</u>
<u>3 2 2 1</u>	<u>2 2 5 3</u>	<u>1 7 2 0</u>

(d)	(e)	(f)
8 9 8 6	3 5 9 8	9 9 9 9
<u>- 4 5 6 4</u>	<u>- 3 2 7 6</u>	<u>- 4 7 9 8</u>
<u>4 4 2 2</u>	<u>0 3 2 2</u>	<u>5 2 0 1</u>

Exercise 5B

1. (a)	(b)	(c)
Th H T O	Th H T O	Th H T O
4 4 3 6	5 0 0 1	8 3 4 5
<u>- 2 7 5 8</u>	<u>- 1 3 2 5</u>	<u>- 6 7 4 6</u>
<u>1 6 7 8</u>	<u>3 6 7 6</u>	<u>1 5 9 9</u>

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

$$\begin{array}{r}
 \text{2. (a) } 8 \ 4 \ 5 \ 0 \\
 - 4 \ 9 \ 9 \ 9 \\
 \hline
 3 \ 4 \ 5 \ 1
 \end{array}
 \quad
 \begin{array}{r}
 3 \ 4 \ 5 \ 1 \\
 + 4 \ 9 \ 9 \ 9 \\
 \hline
 8 \ 4 \ 5 \ 0
 \end{array}
 \quad
 \begin{array}{r}
 \text{(b) } 9 \ 2 \ 3 \ 5 \\
 - 4 \ 8 \ 9 \ 6 \\
 \hline
 4 \ 3 \ 3 \ 9
 \end{array}
 \quad
 \begin{array}{r}
 \textcircled{1} \ \textcircled{1} \ \textcircled{1} \\
 4 \ 3 \ 3 \ 9 \\
 + 4 \ 8 \ 9 \ 6 \\
 \hline
 9 \ 2 \ 3 \ 5
 \end{array}$$

$$\begin{array}{r}
 \text{(c) } 8 \ 8 \ 8 \ 8 \\
 - 4 \ 9 \ 9 \ 9 \\
 \hline
 3 \ 8 \ 8 \ 9
 \end{array}
 \quad
 \begin{array}{r}
 \textcircled{1} \ \textcircled{1} \ \textcircled{1} \\
 3 \ 8 \ 8 \ 9 \\
 + 4 \ 9 \ 9 \ 9 \\
 \hline
 8 \ 8 \ 8 \ 8
 \end{array}
 \quad
 \begin{array}{r}
 \text{(d) } 4 \ 7 \ 8 \ 6 \\
 - 3 \ 9 \ 9 \ 5 \\
 \hline
 7 \ 9 \ 1
 \end{array}
 \quad
 \begin{array}{r}
 \textcircled{1} \ \textcircled{1} \\
 3 \ 9 \ 9 \ 5 \\
 + 7 \ 9 \ 1 \\
 \hline
 4 \ 7 \ 8 \ 6
 \end{array}$$

$$\begin{array}{r}
 \text{(e) } 6 \ 7 \ 4 \ 8 \\
 - 2 \ 3 \ 5 \ 9 \\
 \hline
 4 \ 3 \ 8 \ 9
 \end{array}
 \quad
 \begin{array}{r}
 2 \ 3 \ 5 \ 9 \\
 + 4 \ 3 \ 8 \ 9 \\
 \hline
 6 \ 7 \ 4 \ 8
 \end{array}
 \quad
 \begin{array}{r}
 \text{(f) } 7 \ 4 \ 5 \ 8 \\
 - 3 \ 2 \ 9 \ 6 \\
 \hline
 4 \ 1 \ 6 \ 2
 \end{array}
 \quad
 \begin{array}{r}
 4 \ 1 \ 6 \ 2 \\
 + 3 \ 2 \ 9 \ 6 \\
 \hline
 7 \ 4 \ 5 \ 8
 \end{array}$$

$$\begin{array}{r}
 \text{3. (a) } \begin{array}{r} \textcircled{5} \ \textcircled{1} \ \textcircled{14} \\ 6 \ \boxed{2} \ 4 \ 5 \\ - 2 \ 6 \ \boxed{9} \ 7 \\ \hline \boxed{3} \ \boxed{5} \ \boxed{5} \ \boxed{8} \end{array}
 \quad
 \begin{array}{r} \textcircled{6} \ \textcircled{12} \ \textcircled{15} \\ 7 \ \boxed{3} \ 5 \ 6 \\ - 2 \ 3 \ \boxed{7} \ 4 \\ \hline \boxed{4} \ \boxed{9} \ \boxed{8} \ \boxed{2} \end{array}
 \quad
 \begin{array}{r} \textcircled{4} \ \textcircled{11} \ \textcircled{16} \ \textcircled{10} \\ 5 \ 2 \ \boxed{7} \ 0 \\ - 1 \ \boxed{7} \ 8 \ 3 \\ \hline \boxed{3} \ \boxed{4} \ \boxed{8} \ \boxed{7} \end{array}
 \quad
 \begin{array}{r} \textcircled{5} \ \textcircled{10} \ \textcircled{15} \\ \boxed{8} \ 1 \ 6 \ 2 \\ - \boxed{4} \ \boxed{4} \ \boxed{7} \ 7 \\ \hline \boxed{3} \ \boxed{6} \ \boxed{8} \ \boxed{5} \end{array}
 \end{array}$$

Exercise 5C

1. $6314 - 3579 = 2735$

is the number that should be subtracted

2. $8246 - 3067 = 5179$ should be added.

3. No. of bats in godown

No. of bats sold out

Bats left in godown

$$\begin{array}{r}
 6 \ 7 \ 2 \ 5 \\
 - 3 \ 4 \ 6 \ 7 \\
 \hline
 3 \ 2 \ 5 \ 8 \text{ bats}
 \end{array}$$

4. No. of candidates appeared

No. of candidates passed

No. of candidates failed

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

5. No. of students in school	3 8 9 0
No. of girls	<u>- 2 2 3 7</u>
No. of boys in school	<u>1 6 5 3</u> boys
6. Money in Rinku bank a/c	₹ 9 4 3 7
Money withdrawn by him	<u>- ₹ 7 3 2 5</u>
Money left in his a/c	<u>₹ 2 1 1 2</u>
7. No. of people in town	9 4 3 6
No. of people who cast votes	<u>- 4 2 7 5</u>
No. of people did not cast votes	<u>5 1 6 1</u>
8. Total cost of vehicles	₹ 8 4 5 0
Cost of motorcycle	<u>- ₹ 6 4 5 0</u>
Cost of cycle	<u>₹ 2 0 0 0</u>
9. No. of cakes baker had	4 5 0 0
No. of cakes sold by him	<u>- 3 2 5 0</u>
Cakes left with baker	<u>1 2 5 0</u> cakes
10. No. of persons visited zoo on holiday	4 2 3 6
No. of persons those were adult	<u>- 2 3 4 5</u>
No. of children visited zoo	<u>1 8 9 1</u>

Chapter 6 : Multiplication

Exercise 6A

- | | | | |
|-----------|---------|---------|---------|
| 1. (a) 4 | (b) 24 | (c) 4 | (d) 6 |
| (e) 7 | (f) 27 | | |
| 2. (a) 81 | (b) 100 | (c) 108 | (d) 20 |
| (e) 72 | (f) 70 | (g) 120 | (h) 112 |
| 3. (a) 1 | (b) 0 | (c) 459 | (d) 0 |
| (e) 3 | (f) 5 | (g) 7 | (h) 14 |
| (i) 1 | (j) 0 | | |

Exercise 6B

1. (a) $\begin{array}{r} 332 \\ \times 3 \\ \hline 996 \end{array}$	(b) $\begin{array}{r} 213 \\ \times 2 \\ \hline 426 \end{array}$	(c) $\begin{array}{r} 304 \\ \times 2 \\ \hline 608 \end{array}$	(d) $\begin{array}{r} 201 \\ \times 5 \\ \hline 1005 \end{array}$
(e) $\begin{array}{r} 331 \\ \times 3 \\ \hline 993 \end{array}$	(f) $\begin{array}{r} \textcircled{1} \textcircled{1} \\ 234 \\ \times 3 \\ \hline 702 \end{array}$	(g) $\begin{array}{r} \textcircled{3} \\ 507 \\ \times 5 \\ \hline 2535 \end{array}$	(h) $\begin{array}{r} \textcircled{1} \textcircled{4} \\ 216 \\ \times 7 \\ \hline 1512 \end{array}$
(i) $\begin{array}{r} \textcircled{1} \textcircled{3} \textcircled{1} \\ 1384 \\ \times 4 \\ \hline 5536 \end{array}$	(j) $\begin{array}{r} \textcircled{1} \textcircled{5} \\ 1018 \\ \times 7 \\ \hline 7126 \end{array}$	(k) $\begin{array}{r} \textcircled{2} \textcircled{3} \\ 1405 \\ \times 7 \\ \hline 9835 \end{array}$	(l) $\begin{array}{r} \textcircled{2} \textcircled{5} \textcircled{2} \\ 1384 \\ \times 7 \\ \hline 9688 \end{array}$
(m) $\begin{array}{r} \textcircled{2} \textcircled{2} \textcircled{1} \\ 1563 \\ \times 4 \\ \hline 6252 \end{array}$	(n) $\begin{array}{r} \textcircled{2} \textcircled{2} \textcircled{2} \\ 2897 \\ \times 3 \\ \hline 8691 \end{array}$	(o) $\begin{array}{r} \textcircled{6} \textcircled{4} \\ 1086 \\ \times 7 \\ \hline 7602 \end{array}$	(p) $\begin{array}{r} \textcircled{1} \textcircled{5} \textcircled{5} \\ 1189 \\ \times 6 \\ \hline 7134 \end{array}$

Exercise 6C

1. (a) $\begin{array}{r} 22 \\ \times 40 \\ \hline 00 \\ 88 \times \\ \hline 880 \end{array}$	(b) $\begin{array}{r} 58 \\ \times 50 \\ \hline 00 \\ 290 \times \\ \hline 2900 \end{array}$	(c) $\begin{array}{r} 32 \\ \times 20 \\ \hline 00 \\ 64 \times \\ \hline 640 \end{array}$
(d) 26×300 (26×3) hundreds 78 hundreds $= 7800$	(e) $10 \times 12 \times 40$ $10 \times 40 \times 12$ 400×12 $= 4800$	(f) $6 \times 20 \times 30$ 6×600 6×6 (hundreds) $= 3600$

Exercise 6D

1. (a) $\begin{array}{r} 88 \\ \times 72 \\ \hline 176 \\ 616 \times \\ \hline 6336 \end{array}$	(b) $\begin{array}{r} 56 \\ \times 64 \\ \hline 224 \\ 336 \times \\ \hline 3584 \end{array}$	(c) $\begin{array}{r} 76 \\ \times 49 \\ \hline 684 \\ 304 \times \\ \hline 3724 \end{array}$	(d) $\begin{array}{r} 68 \\ \times 87 \\ \hline 476 \\ 544 \times \\ \hline 5916 \end{array}$
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(e) $\begin{array}{r} 148 \\ \times 26 \\ \hline 888 \\ 296 \times \\ \hline 3848 \end{array}$	(f) $\begin{array}{r} 236 \\ \times 19 \\ \hline 2124 \\ 236 \times \\ \hline 4484 \end{array}$	(g) $\begin{array}{r} 312 \\ \times 32 \\ \hline 624 \\ 936 \times \\ \hline 9984 \end{array}$	(h) $\begin{array}{r} 235 \\ \times 31 \\ \hline 235 \\ 705 \times \\ \hline 7285 \end{array}$
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Exercise 6E

1. No. of days in week = 7

No. of days in 19 weeks = 9×7 days = 133 days

2. No. of rows in cinema hall

35

No. of seats in each row

$\times 30$

Total no. of seats

$\hline 00$
 $105 \times$
 seats $\hline 1050$

3. No. of beads in a chain

108

No. of beads in 40 chains

$\times 40$

Total no. of beads =

$\hline 000$
 $432 \times$
 $\hline 4320$

4. No. of wheat bags in a truck

145

No. of wheat bags in 60 trucks

$\times 60$

$\hline 000$
 $870 \times$
 bags $\hline 8700$

5. No. of chalk sticks in a box = 48

No. of chalk sticks in 56 boxes = 48×56

Total no. of chalk sticks = 2688 sticks

6. No. of trees in a row = 24

No. of rows = 79

Total no. of trees = 24×79 = 1896 trees

7. No. of passengers in a plane = 236

No. of passengers in 27 planes = 236×7
= 6372 passengers

8. No. of balloons in a packets = 138

No. of balloons in 16 packets = $138 \times 16 = 2208$ balloons

Chapter 7 : Division

Exercise 7A

1. (a) 7 (b) 5 (c) 5 (d) 6 (e) 3

(f) 4 (g) 3 (h) 5

2. (a) $12 \times 4 = 48$ (b) $13 \times 6 = 78$

$48 \div 12 = 4$ $78 \div 13 = 6$

$48 \div 4 = 12$ $78 \div 6 = 13$

(c) $4 \times 19 = 76$ (d) $4 \times 6 = 24$

$76 \div 19 = 4$ $24 \div 6 = 4$

$76 \div 4 = 19$ $24 \div 4 = 6$

3. (a) $7 \times 4 = 28$ (b) $5 \times 9 = 45$ (c) $7 \times 8 = 56$

(d) $13 \times 4 = 52$ (e) $17 \times 6 = 102$ (f) $19 \times 4 = 76$

4. (a) 5 (b) 6 (c) 9 (d) 49

(e) 63 (f) 6 (g) 66 (h) 6

Exercise 7B

1. (a) 0 (b) 1 (c) 1 (d) 0 (e) 5

(f) 18 (g) 0 (h) 1 (i) 0 (j) 8

(k) 125 (l) 0

Exercise 7C

1. (a) $3 \overline{)48} 16$ (b) $5 \overline{)60} 12$ (c) $2 \overline{)36} 18$

$$\begin{array}{r} -3 \\ \hline 18 \end{array}$$

$$\begin{array}{r} -18 \\ \hline \times \end{array}$$

Q = 16

$$\begin{array}{r} -5 \\ \hline 10 \end{array}$$

$$\begin{array}{r} -10 \\ \hline \times \end{array}$$

Q = 12

$$\begin{array}{r} -2 \\ \hline 16 \end{array}$$

$$\begin{array}{r} -16 \\ \hline \times \end{array}$$

Q = 18

$\begin{array}{r} (d) \quad 3 \overline{)432} \overline{)144} \\ \underline{-3} \\ 13 \\ \underline{-12} \\ 12 \\ \underline{12} \\ \times \\ \hline \end{array}$	$\begin{array}{r} (e) \quad 8 \overline{)912} \overline{)114} \\ \underline{-8} \\ 11 \\ \underline{-8} \\ 32 \\ \underline{-32} \\ \times \\ \hline \end{array}$	$\begin{array}{r} (f) \quad 3 \overline{)963} \overline{)321} \\ \underline{-9} \\ 06 \\ \underline{-06} \\ 03 \\ \underline{-03} \\ \times \\ \hline \end{array}$
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$$Q = 144$$

$$Q = 114$$

$$Q = 321$$

$\begin{array}{r} (g) \quad 4 \overline{)9056} \overline{)2264} \\ \underline{-8} \\ 10 \\ \underline{-08} \\ 25 \\ \underline{-24} \\ 16 \\ \underline{-16} \\ \times \\ \hline \end{array}$	$\begin{array}{r} (h) \quad 7 \overline{)9303} \overline{)1329} \\ \underline{-7} \\ 23 \\ \underline{-21} \\ 20 \\ \underline{-14} \\ 63 \\ \underline{-63} \\ \times \\ \hline \end{array}$
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$$Q = 2264$$

$$Q = 1329$$

$\begin{array}{r} 2. (a) \quad 8 \overline{)787} \overline{)98} \\ \underline{-72} \\ 67 \\ \underline{-64} \\ 03 \\ \hline \end{array}$	$\begin{array}{r} (b) \quad 9 \overline{)3516} \overline{)390} \\ \underline{-27} \\ 81 \\ \underline{-81} \\ 06 \\ \hline \end{array}$	$\begin{array}{r} (c) \quad 4 \overline{)419} \overline{)104} \\ \underline{-4} \\ 19 \\ \underline{-16} \\ 03 \\ \hline \end{array}$
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$$Q = 98,$$

$$Q = 390,$$

$$Q = 104,$$

$$R = 3$$

$$R = 6$$

$$R = 3$$

$$\begin{array}{r}
 \text{(d) } 8 \overline{)6810} \text{ (851} \\
 \underline{-64} \\
 41 \\
 \underline{-40} \quad Q = 851 \\
 10 \quad R = 2 \\
 \underline{-08} \\
 \underline{\quad 02}
 \end{array}$$

$$\begin{array}{r}
 \text{(e) } 6 \overline{)9432} \text{ (1572} \\
 \underline{-6} \\
 34 \\
 \underline{-30} \quad Q = 1572 \\
 43 \\
 \underline{-42} \\
 12 \\
 \underline{\quad 12} \\
 \underline{\quad \quad \times}
 \end{array}$$

Exercise 7D

- (a) $Q = 7, R = 5$ (b) $Q = 8, R = 4$
 (c) $Q = 17, R = 9$ (d) $Q = 18, R = 8$
 (e) $Q = 34, R = 6$ (f) $Q = 54, R = 9$
 (g) $Q = 288, R = 9$ (h) $Q = 630, R = 5$

Exercise 7E

- No. of trees in garden = 837
 No. of rows in garden = 9
 No. of trees = $837 \div 9 = 93$ trees
- No. of students in school = 984
 No. of classes = 8
 No. of students in = $984 \div 8 = 123$ students
- Distance travelled by Atul in 3 days = 483 km
 Distance travelled in 1 day = $483 \div 3 = 161$ km
- No. of boxes of apples = 448 boxes
 No. of trucks = 7 trucks
 No. of boxes in each trucks = $448 \div 7 = 64$ boxes
- Total no. of pages = 960
 No. of notebooks = 5
 Pages in each notebook = $960 \div 5 = 192$ pages
- $1224 \div 6 = 204$ is the Number.
- No. of trees planted = 828
 No. of persons = 6
 No. of trees planted by each person = $828 \div 6 = 138$ trees

Chapter 8 : Fraction Numbers

Exercise 8A

1. Do yourself.

2. Do yourself.

3. (a) $\frac{2}{8}$ (b) $\frac{2}{6}$ (c) $\frac{4}{6}$ (d) $\frac{1}{4}$ (e) $\frac{6}{8}$ (f) $\frac{1}{6}$

4. (a) $\frac{4}{9}$ (b) $\frac{1}{10}$ (c) $\frac{8}{11}$ (d) $\frac{12}{17}$ (e) $\frac{1}{5}$ (f) $\frac{6}{13}$

5. (a) Five-nineteenths (b) Two-thirds
(c) Three-twelfths (d) Four-twenty firsts
(e) Seven-Sixteenths (f) Eight-fifteenths

6. Numerator Denominator

(a) 3 6

(b) 4 9

(c) 7 8

(d) 8 13

(e) 4 15

(f) 17 25

7. (a) $\frac{6}{15}$ (b) $\frac{12}{20}$ (c) $\frac{4}{18}$ (d) $\frac{3}{24}$ (e) $\frac{14}{29}$ (f) $\frac{17}{33}$

8. (a) 12 (b) numerator (c) denominator
(d) 36 (e) numerator, denominator
(f) numerator, denominator

Exercise 8B

1. (a) $\frac{5}{11}$ (b) $\frac{11}{16}$ (c) $\frac{8}{11}$ (d) $\frac{3}{5}$ (e) $\frac{1}{5}$

2. (a) $\frac{1}{9}, \frac{3}{9}, \frac{6}{9}, \frac{7}{9}$ (b) $\frac{3}{15}, \frac{6}{15}, \frac{8}{15}, \frac{11}{15}$

(c) $\frac{1}{15}, \frac{1}{11}, \frac{1}{9}, \frac{1}{8}$ (d) $\frac{8}{20}, \frac{8}{17}, \frac{8}{15}, \frac{8}{12}$

3. (a) $\frac{4}{6}, \frac{4}{8}, \frac{4}{9}, \frac{4}{11}$ (b) $\frac{7}{9}, \frac{5}{9}, \frac{2}{9}, \frac{1}{9}$

$$(c) \frac{16}{20}, \frac{13}{20}, \frac{12}{20}, \frac{1}{20} \quad (d) \quad \frac{15}{20}, \frac{15}{23}, \frac{15}{25}, \frac{15}{28}$$

4. (a) $\frac{5 \times 4}{6 \times 4} = \frac{20}{24}$; $\frac{5 \times 5}{6 \times 5} = \frac{25}{30}$; $\frac{5 \times 6}{6 \times 6} = \frac{30}{36}$
 (b) $\frac{7 \times 4}{9 \times 4} = \frac{28}{36}$; $\frac{7 \times 5}{9 \times 5} = \frac{35}{45}$; $\frac{7 \times 6}{9 \times 6} = \frac{42}{54}$
 (c) $\frac{4 \times 4}{8 \times 4} = \frac{16}{32}$; $\frac{4 \times 5}{8 \times 5} = \frac{20}{40}$; $\frac{4 \times 6}{8 \times 6} = \frac{24}{48}$
 (d) $\frac{2 \times 4}{5 \times 4} = \frac{8}{20}$; $\frac{2 \times 5}{5 \times 5} = \frac{10}{25}$; $\frac{2 \times 6}{5 \times 6} = \frac{12}{30}$

5. (a) < (b) > (c) > (d) >
 (e) > (f) > (g) < (h) >

6. (a) $\frac{12 \times 36}{15 \times 45} = 12 \times 45 = 15 \times 36$
 $= 540 \qquad \qquad = 540$ Yes

(b) $\frac{4 \times 7}{6 \times 12} = 4 \times 12 = 7 \times 6$
 $= 48 \qquad \qquad = 42$ No

(c) $\frac{8 \times 14}{12 \times 21} = 8 \times 21 = 14 \times 12$
 $= 168 \qquad \qquad = 168$ Yes

(d) $\frac{9 \times 1}{27 \times 3} = 9 \times 3 = 27 \times 1$
 $= 27 \qquad \qquad = 27$ Yes

(e) $\frac{15 \times 5}{45 \times 15} = 45 \times 5 = 15 \times 15$
 $= 225 \qquad \qquad = 225$ Yes

(f) $\frac{12 \times 9}{18 \times 19} = 12 \times 19 = 18 \times 9$
 $= 228 \qquad \qquad = 162$ No

Exercise 8C

1. (a) $\frac{2}{19} + \frac{7}{19} = \frac{2+7}{19} = \frac{9}{19}$
 (b) $\frac{6}{21} + \frac{9}{21} = \frac{6+9}{21} = \frac{15}{21}$
 (c) $\frac{6}{12} + \frac{1}{12} = \frac{6+1}{12} = \frac{7}{12}$

$$(d) \frac{9}{31} + \frac{4}{31} = \frac{9+4}{31} = \frac{13}{31}$$

$$(e) \frac{17}{28} + \frac{4}{28} = \frac{17+4}{28} = \frac{21}{28}$$

$$(f) \frac{6}{31} + \frac{15}{31} = \frac{6+15}{31} = \frac{21}{31}$$

$$2. (a) \frac{45-15}{70} = \frac{30}{70} \quad (b) \frac{28-8}{40} = \frac{20}{40} \quad (c) \frac{37-7}{56} = \frac{30}{56}$$

$$(d) \frac{31-2}{52} = \frac{29}{52} \quad (e) \frac{7-4}{25} = \frac{3}{25} \quad (f) \frac{24-1}{28} = \frac{23}{28}$$

$$3. (a) \frac{6+4}{17} = \frac{10}{17} \quad (b) \frac{15-5}{23} = \frac{10}{23}$$

$$(c) \frac{51}{87} - \frac{27}{87} = \frac{51-27}{87} = \frac{24}{87}$$

$$(d) \frac{68-41}{79} = \frac{27}{79} \quad (e) \frac{9-6}{11} = \frac{3}{11} \quad (f) \frac{31-12}{51} = \frac{19}{51}$$

Exercise D

1. Length of electricity pole $\frac{2}{3}$ m

Pole under the ground $\frac{1}{3}$ m

Pole above the ground $= \frac{2}{3} - \frac{1}{3} = \frac{1}{3}$ m

2. Part of book read by suresh $\frac{4}{15}$

Part of book read by Rahul $\frac{3}{15}$

Suresh read more book by $= \frac{4}{15} - \frac{3}{15} = \frac{1}{15}$

3. $\frac{17}{28} - \frac{6}{28} = \frac{17-6}{28} = \frac{11}{28}$

4. Work done by kanika on Ist day $\frac{5}{12}$

Work done by Kanita on IInd day $\frac{2}{12}$

Total work done by Kanika = $\frac{5}{12} + \frac{2}{12} = \frac{7}{12}$

5. Money spent by Sonu on fruits ₹ $\frac{7}{19}$

Money spent on vegetables ₹ $\frac{5}{19}$

Total money spend = ₹ $\frac{7}{19} + \frac{5}{19} = ₹ \frac{12}{19}$

6. Weight of potatoes $\frac{3}{12}$ kg

Weight of tomatoes $\frac{2}{12}$ kg

Weight of onion $\frac{1}{12}$ kg

Total Qty of vegetables = $\frac{3}{12} + \frac{2}{12} + \frac{1}{12} = \frac{6}{12} = \frac{1}{2}$ kg

7. $\frac{9}{15} - \frac{7}{15} = \frac{9-7}{15} = \frac{2}{15}$

8. $\frac{6}{8} - \frac{2}{8} = \frac{6-2}{8} = \frac{4}{8}$

Mental Maths

A. (a) $144 - 122 = 22$ (b) $190 - 20 = 170$

(c) $400 - 99 = 301$ (d) $389 - 178 = 211$

(e) $30 + 20 = 70 - 20$ ($50 = 50$)

(f) $40 + 100 = 140$, $150 - 10 = 140$

B. (a) (iii) (b) (i) (c) (v) (d) (ii) (e) (iv)

C. Total number of children = 6

No. of boys = 2 No. of girls = 3 No. of babies = 1

$\frac{2}{6}$ $\frac{3}{6}$ $\frac{4}{6}$ $\frac{1}{6}$ $\frac{5}{6}$

- (a) (b) (c) (d) (e)

Chapter 9 : Money

Exercise 9A

1. (a) Rupees Ninety and Eighty five paise
 (b) Rupees sixty four and eight paise
 (c) Eighty eight paise (d) Seven paise
2. (a) ₹ 25.75 (b) ₹ 36.55 (c) ₹ 42.05 (d) ₹ 86.35
3. (a) 8 Rs. = $8 \times 100 = 800$ p
 (b) 15 Rs. = $15 \times 100 = 1500$ p
 (c) 25 Rs. = $25 \times 100 = 2500$ p
 (d) ₹ 36 = $36 \times 100 = 3600$ p
 (e) ₹ 49 = $49 \times 100 = 4900$ p
 (f) ₹ 72 = $72 \times 100 = 7200$ p
4. (a) R 36.10 = $36 \times 100 + 10 = 3610$ p
 (b) R 55.85 = $55 \times 100 + 85 = 5585$ p
 (c) R 18.95 = $18 \times 100 + 95 = 1895$ p
 (d) R 40.08 = $40 \times 100 + 8 = 4008$ p
 (e) R 20.58 = $20 \times 100 + 58 = 2058$ p
 (f) R 0.75 = $0.75 \times 100 = 75$ p
5. (a) 8 Rs. 75 p = $8 \times 100 + 75 = 875$ p
 (b) 16 Rs. 5 p = $16 \times 100 + 5 = 1605$ p
 (c) 64 Rs. 8 p = $64 \times 100 + 8 = 6408$ p
 (d) 75 Rs. 90 p = $75 \times 100 + 90 = 7590$ p
6. (a) $385 \text{ p} = \frac{385}{100} = \text{Rs. } 3.85$
 (b) $805 \text{ p} = \frac{805}{100} = \text{₹ } 8.05 \text{ p}$
 (c) $999 \text{ p} = \frac{999}{100} = \text{₹ } 9.99 \text{ p}$
 (d) $2817 \text{ p} = \frac{2817}{100} = \text{₹ } 28.17 \text{ p}$

Exercise 9B

- | | | | | | |
|-----|---|-----|--|-----|--|
| (a) | $\begin{array}{r} \text{R P} \\ 66 . 95 \\ + 55 . 45 \\ \hline 122 . 40 \end{array}$ | (b) | $\begin{array}{r} \text{R P} \\ 78 . 45 \\ + 54 . 55 \\ \hline 133 . 00 \end{array}$ | (c) | $\begin{array}{r} \text{R P} \\ 64 . 65 \\ + 32 . 80 \\ \hline 97 . 45 \end{array}$ |
| (d) | $\begin{array}{r} \text{R P} \\ 128 . 94 \\ + 64 . 42 \\ \hline 193 . 36 \end{array}$ | (e) | $\begin{array}{r} \text{R P} \\ 104 . 93 \\ + 63 . 84 \\ \hline 168 . 77 \end{array}$ | (f) | $\begin{array}{r} \text{R P} \\ 98 . 86 \\ + 78 . 52 \\ \hline 177 . 38 \end{array}$ |
| (g) | $\begin{array}{r} \text{R P} \\ 32 . 42 \\ + 52 . 93 \\ \hline 63 . 84 \\ \hline 149 . 19 \end{array}$ | (h) | $\begin{array}{r} \text{R P} \\ 39 . 45 \\ + 27 . 55 \\ \hline 66 . 95 \\ \hline 133 . 95 \end{array}$ | (i) | $\begin{array}{r} \text{R P} \\ 49 . 86 \\ + 39 . 26 \\ \hline 32 . 42 \\ \hline 121 . 54 \end{array}$ |
| (j) | $\begin{array}{r} \text{R } 306.80 \\ \text{R } 389.95 \\ + \text{R } 368.05 \\ \hline \text{R } 1064.80 \end{array}$ | (k) | $\begin{array}{r} \text{R } 9984 \\ \text{R } 52.41 \\ + \text{R } 63.40 \\ \hline \text{R } 215.65 \end{array}$ | (l) | $\begin{array}{r} \text{R } 154.93 \\ \text{R } 224.22 \\ + \text{R } 108.78 \\ \hline \text{R } 487.93 \end{array}$ |

Exercise 9C

- | | | | | | |
|-----|--|-----|---|-----|--|
| (a) | $\begin{array}{r} \text{R P} \\ 63 . 40 \\ - 23 . 85 \\ \hline 39 . 55 \end{array}$ | (b) | $\begin{array}{r} \text{R P} \\ 88 . 74 \\ - 52 . 41 \\ \hline 36 . 33 \end{array}$ | (c) | $\begin{array}{r} \text{R P} \\ 99 . 41 \\ - 52 . 84 \\ \hline 46 . 57 \end{array}$ |
| (d) | $\begin{array}{r} \text{R P} \\ 123 . 45 \\ - 95 . 95 \\ \hline 27 . 50 \end{array}$ | (e) | $\begin{array}{r} \text{R P} \\ 76 . 37 \\ - 41 . 86 \\ \hline 34 . 51 \end{array}$ | (f) | $\begin{array}{r} \text{R P} \\ 400 . 10 \\ - 198 . 80 \\ \hline 201 . 30 \end{array}$ |
| (g) | $\begin{array}{r} \text{R P} \\ 289 . 25 \\ - 148 . 65 \\ \hline 140 . 60 \end{array}$ | (h) | $\begin{array}{r} \text{R P} \\ 198 . 16 \\ - 167 . 25 \\ \hline 30 . 91 \end{array}$ | (i) | $\begin{array}{r} \text{R P} \\ 198 . 00 \\ - 83 . 70 \\ \hline 114 . 30 \end{array}$ |

$$\begin{array}{r} \text{R } 380 . 40 \\ \text{(j) } - \text{R } 148 . 75 \\ \hline \text{R } 231 . 65 \end{array}$$

$$\begin{array}{r} \text{R } 200 . 05 \\ \text{(k) } - \text{R } 173 . 90 \\ \hline \text{R } 26 . 15 \end{array}$$

$$\begin{array}{r} \text{R } 300 . 30 \\ \text{(l) } - \text{R } 200 . 70 \\ \hline \text{R } 99 . 60 \end{array}$$

Exercise 9D

	₹ 850.00
1. Money with vaibhav	– ₹ 570.90
Money with Raman	<u>₹ 279.10</u>
Vaibhav has more money by	₹ 1045.50
2. Price of spectacles	+ ₹ 500.00
Price of goggles	<u>₹ 1545.50</u>
Total money spent by Suraj	₹ 1859.60
3. Money in Sarthak a/c	– ₹ 580.95
Money with drawn by him	<u>₹ 1278.65</u>
Money left in Sarthak a/c	₹ 240.80
4. Cost of book	– ₹ 88.80
Money with Bharat	<u>₹ 152.00</u>
Money needed by him	₹ 100
5. Vishesh get money from his father	₹ 50
Vishesh get money from his mother	+ ₹ 46.80
Vishesh get money from his g. father	<u>₹ 196.80</u>
Total Money with vishesh	₹ 20 .00
6. Price of bread	₹ 25.80
Price of butter	+ ₹ 10.50
Price of chips	<u>₹ 56.30</u>
Total money	₹ 500.00
Money give to shopkeeper	– ₹ 56.30
	<u>₹ 443.70</u>

Money spent on items

7. Price of chair	₹ 14.45
Price of Ribbon	₹ 20.80
Price of bangles	<u>+ ₹ 17.90</u>
	<u>₹ 53.15</u>
Total money spent	₹ 100.00
8. $\begin{array}{r} 250.80 \\ - 250.80 \\ \hline 34.66 \end{array}$	$\begin{array}{r} ₹ 100.00 \\ - ₹ 34.66 \\ \hline ₹ 65.34 \end{array}$

$\begin{array}{r} ₹ 8.36 \\ \times 7 \\ \hline ₹ 58.52 \end{array}$	<p style="text-align: center;">Exercise 10</p> $\begin{array}{r} ₹ 100.00 \\ \times 6 \\ \hline ₹ 600.00 \end{array}$	$\begin{array}{r} ₹ 48.26 \\ \times 5 \\ \hline ₹ 241.30 \end{array}$
$\begin{array}{r} ₹ 205.09 \\ \times 8 \\ \hline ₹ 1640.72 \end{array}$	$\begin{array}{r} ₹ 19.50 \\ \times 4 \\ \hline ₹ 78.00 \end{array}$	$\begin{array}{r} ₹ 149.85 \\ \times 8 \\ \hline ₹ 1198.80 \end{array}$

$\begin{array}{r} ₹ \text{ P} \\ ①② \text{ ①} \\ 33.53 \\ \times 4 \\ \hline 134.12 \end{array}$	$\begin{array}{r} ₹ \text{ P} \\ ①① \text{ ①} \\ 83.45 \\ \times 3 \\ \hline 250.35 \end{array}$	$\begin{array}{r} ₹ \text{ P} \\ ③③ \text{ ①} \\ 456.30 \\ \times 6 \\ \hline 2737.80 \end{array}$	$\begin{array}{r} ₹ \text{ P} \\ \text{ ②} \\ 80.05 \\ \times 5 \\ \hline 400.25 \end{array}$
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3. (a) Cost of one envelope = ₹ 10.25
 Cost of 8 envelope = $10.25 \times 8 = ₹ 82$
- (b) Price of radio = ₹ 450.80
 Price of TV = $450.80 \times 8 = ₹ 3606.40$
- (c) Cost of one bag = ₹ 265.25
 Cost of eight bags = $265.25 \times 8 = ₹ 2122$
- (d) Cost of one packet of grapes = ₹ 100.40
 Cost of 9 packets = $100.40 \times 9 = ₹ 903.60$
- (e) Cost of one envelope = 0.95 p

Chapter 10 : Metric Measures

Exercise 10A

1. (a) $4 \text{ m} = 4 \times 100 \text{ cm} = 400 \text{ cm}$
(b) $13 \text{ m} = 13 \times 100 = 1300 \text{ cm}$
(c) $35 \text{ m} = 35 \times 100 = 3500 \text{ cm}$
(d) $70 \text{ m } 40 \text{ cm} = 70 \times 100 + 40$
 $= 7000 + 40 = 7040 \text{ cm}$
(e) $88 \text{ m } 99 \text{ cm} = 88 \times 100 + 99$
 $= 8800 + 99 = 8899 \text{ cm}$
(f) $70 \text{ m } 6 \text{ cm}, 70 \times 100 + 6 = 7006 \text{ cm}$
2. (a) $666 \text{ cm} = 6.66 \text{ m} = 6 \text{ m } 66 \text{ cm}$
(b) $\frac{550}{100} = 5.50 = 5 \text{ m } 50 \text{ cm}$
(c) $\frac{809}{100} = 8.09 = 8 \text{ m } 9 \text{ cm}$
(d) $\frac{7766}{100} = 77.66 = 77 \text{ m } 66 \text{ cm}$
(e) $\frac{4444}{100} = 44.44 = 44 \text{ m } 44 \text{ cm}$
(f) $\frac{1305}{100} = 13.05 = 13 \text{ m } 5 \text{ cm}$
3. (a) $7 \text{ km} = 7 \times 1000 \text{ m} = 7000 \text{ m}$
(b) $16 \text{ km} = 16 \times 1000 = 16000 \text{ m}$
(c) $32 \text{ km} = 32 \times 1000 = 32000 \text{ m}$
(d) $3 \text{ km } 205 \text{ m} = 3 \times 1000 + 205$
 $3000 + 205 = 3205 \text{ m}$
(e) $4 \text{ km } 040 \text{ m} = 4 \times 1000 + 040 = 4040 \text{ m}$
(f) $7 \text{ km } 300 \text{ m} = 7 \times 1000 + 300 = 7300 \text{ m}$
- 4.(a) $7850 \text{ m} = 7.850 \text{ km} = 7 \text{ km } 850 \text{ m}$

$$(b) 6500 \text{ m} = \frac{6500}{1000} = 6.500 = 6 \text{ km } 500 \text{ m}$$

$$(c) 1575 \text{ m} = \frac{1575}{1000} = 1.575 = 1 \text{ km } 575 \text{ m}$$

$$(d) 1666 \text{ m} = \frac{1666}{1000} = 1.666 = 1 \text{ km } 666 \text{ m.}$$

Exercise 10B

$$1. (a) \begin{array}{r} \text{m} \quad \text{cm} \\ 29 \quad 29 \\ + 40 \quad 78 \\ \hline 70 \quad 07 \end{array}$$

$$(b) \begin{array}{r} \text{m} \quad \text{cm} \\ 55 \quad 08 \\ + 22 \quad 76 \\ \hline 77 \quad 84 \end{array}$$

$$(c) \begin{array}{r} \text{km} \quad \text{m} \\ 2 \quad 175 \\ + 2 \quad 024 \\ \hline 4 \quad 199 \end{array}$$

$$(d) \begin{array}{r} \text{km} \quad \text{m} \\ 9 \quad 005 \\ + 32 \quad 078 \\ \hline 41 \quad 083 \end{array}$$

$$(e) \begin{array}{r} \text{km} \quad \text{m} \\ 16 \quad 835 \\ + 14 \quad 185 \\ \hline 31 \quad 020 \end{array}$$

$$(f) \begin{array}{r} \text{km} \quad \text{m} \\ 110 \quad 005 \\ + 25 \quad 088 \\ \hline 135 \quad 093 \end{array}$$

$$2. (a) 76.15$$

$$(b) 33.38$$

$$(c) 56.97$$

$$(d) 89.108$$

$$(e) 50.576$$

$$(f) 82.272$$

Exercise 10C

$$1. (a) \begin{array}{r} \text{m} \quad \text{cm} \\ 78 \quad 13 \\ - 24 \quad 75 \\ \hline 53 \quad 38 \end{array}$$

$$(b) \begin{array}{r} \text{m} \quad \text{cm} \\ 92 \quad 15 \\ - 64 \quad 25 \\ \hline 27 \quad 90 \end{array}$$

$$(c) \begin{array}{r} \text{m} \quad \text{cm} \\ 77 \quad 15 \\ - 42 \quad 02 \\ \hline 35 \quad 13 \end{array}$$

$$(d) \begin{array}{r} \text{km} \quad \text{m} \\ 28 \quad 45 \\ - 19 \quad 65 \\ \hline 8 \quad 80 \end{array}$$

$$(e) \begin{array}{r} \text{km} \quad \text{m} \\ 8 \quad 346 \\ - 7 \quad 185 \\ \hline 1 \quad 161 \end{array}$$

$$(f) \begin{array}{r} \text{km} \quad \text{m} \\ 6 \quad 087 \\ - 4 \quad 315 \\ \hline 1 \quad 772 \end{array}$$

$$2. (a) 4.40$$

$$(b) 6.89$$

$$(c) 13.75$$

$$(d) 3.586$$

$$(e) 29.676$$

$$(f) 8.661$$

Exercise 10D

$$1. \begin{array}{r} \text{Length of cloth purchased from one shop} \quad 25 \text{ m } 50 \text{ cm} \\ \text{Cloth Purchased from other} \quad \quad \quad + 36 \text{ m } 75 \text{ cm} \\ \hline \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad 62 \text{ m } 25 \text{ cm} \end{array}$$

2. Length of three threads	120 m 5 cm
Total Length	36 m 40 cm
	+ 128 m 85 cm
	<u>285 m 30 cm</u>
3. Length of Road bridge	4 km 280 m
Length of Railway bridge	+ 3 km 625 m
Length of both bridges	<u>7 km 905 m</u>
4. Total length of blue cloth	100 m 00 cm
Cloth sold	- 25 m 25 cm
Cloth left in the shop	<u>74 m 75 cm</u>
5. Length of red rope	64 m 22 cm
Length of black rope	- 36 m 25 cm
	<u>100 m 47 cm</u>
Total Length of rope	159 m 27 cm
Length of Yellow rope	- 100 m 47 cm
	<u>58 m 80 cm</u>

Exercise 10E

- $2 \text{ kg} = 1 \text{ kg} = 1000 \text{ g}, 2 \times 1000 = 2000 \text{ g}$
 - $5 \text{ kg} = 5 \times 1000 = 5000 \text{ g}$
 - $8 \text{ kg } 150 \text{ g} = 8 \times 1000 + 150 = 8150 \text{ g}$
 - $8 \text{ kg } 5 \text{ g} = 8 \times 1000 + 5 = 8005 \text{ g}$
 - $15 \text{ kg } 780 \text{ g} = 15 \times 1000 + 780 = 15780 \text{ g}$
 - $35 \text{ kg } 80 \text{ g} = 35 \times 1000 + 80 = 35080 \text{ g}$
 - $10 \text{ kg } 10 \text{ g} = 10 \times 1000 + 10 = 10,000 + 10 = 10010 \text{ g}$
 - $9 \text{ kg } 900 \text{ g} = 9 \times 1000 + 900 = 9000 + 900 = 9900 \text{ g}$
- $2367 \text{ g} = 1 \text{ g} = \frac{1}{1000} \text{ kg}, \frac{2367}{1000} = 2.367 = 2 \text{ kg } 367 \text{ g}$
 - $3678 \text{ g} = \frac{3678}{1000} = 3.678 = 3 \text{ kg } 678 \text{ g}$
 - $6087 \text{ g} = \frac{6087}{1000} = 6.087 = 6 \text{ kg } 87 \text{ g}$

$$(d) 7009 \text{ g} = \frac{7009}{1000} = 7.009 = 7 \text{ kg } 9 \text{ g}$$

$$(e) 5699 \text{ g} = \frac{5699}{1000} = 5.699 = 5 \text{ kg } 699 \text{ g}$$

$$(f) 9785 \text{ g} = \frac{9785}{1000} = 9.785 = 9 \text{ kg } 785 \text{ g}$$

$$(g) 4268 \text{ g} = \frac{4268}{1000} = 4.268 = 4 \text{ kg } 268 \text{ g}$$

$$(h) 3945 \text{ g} = \frac{3945}{1000} = 3.945 = 3 \text{ kg } 945 \text{ g}$$

$$3. (a) 100 \text{ kg} = 100 \times 1000 = 100000 \text{ g}$$

$$(b) 5 \text{ kg} = 5 \times 1000 = 5000 \text{ g} \quad (c) \frac{2000}{1000} = 2 \text{ kg}$$

$$(d) \frac{5000}{1000} = 5 \text{ kg} \quad (e) 5 \times 1000 + 7 = 5007 \text{ g}$$

$$(f) 30 \times 1000 + 40 = 30,000 + 40 = 30040 \text{ g}$$

Exercise 10F

$$1. (a) \begin{array}{r} \text{kg} \quad \text{g} \\ 3 \quad 407 \\ + 5 \quad 005 \\ \hline 8 \quad 412 \end{array} \quad (b) \begin{array}{r} \text{kg} \quad \text{g} \\ 8 \quad 200 \\ + 4 \quad 030 \\ \hline 12 \quad 230 \end{array} \quad (c) \begin{array}{r} \text{kg} \quad \text{g} \\ 25 \quad 007 \\ + 30 \quad 300 \\ \hline 55 \quad 307 \end{array}$$

$$(d) \begin{array}{r} \text{kg} \quad \text{g} \\ 40 \quad 006 \\ + 70 \quad 004 \\ \hline 110 \quad 001 \end{array} \quad (e) \begin{array}{r} \text{kg} \quad \text{g} \\ 19 \quad 005 \\ + 5 \quad 070 \\ \hline 24 \quad 075 \end{array} \quad (f) \begin{array}{r} \text{kg} \quad \text{g} \\ 38 \quad 040 \\ + 14 \quad 360 \\ \hline 52 \quad 400 \end{array}$$

$$2. (a) \begin{array}{r} \text{kg} \quad \text{g} \\ \textcircled{5} \quad 340 \\ + 7 \quad 820 \\ \hline 13 \quad 160 \end{array} \quad (b) \begin{array}{r} \text{kg} \quad \text{g} \\ 3 \quad 020 \\ + 5 \quad 008 \\ \hline 8 \quad 028 \end{array} \quad (c) \begin{array}{r} \text{kg} \quad \text{g} \\ \textcircled{90} \quad 450 \\ + 73 \quad 268 \\ \hline 163 \quad 718 \end{array}$$

$$\begin{array}{r}
 \text{(d)} \quad \text{kg} \quad \text{g} \\
 4 \quad 435 \\
 2 \quad 678 \\
 + 3 \quad 729 \\
 \hline
 10 \quad 842
 \end{array}$$

$$\begin{array}{r}
 \text{(e)} \quad \text{kg} \quad \text{g} \\
 8 \quad 672 \\
 3 \quad 124 \\
 + 1 \quad 729 \\
 \hline
 13 \quad 525
 \end{array}$$

$$\begin{array}{r}
 \text{(f)} \quad \text{kg} \quad \text{g} \\
 9 \quad 986 \\
 7 \quad 352 \\
 + 1 \quad 229 \\
 \hline
 18 \quad 567
 \end{array}$$

Exercise 10G

$$\begin{array}{r}
 \text{1. (a)} \quad 35 \text{ kg} \quad 450 \text{ g} \\
 - 9 \text{ kg} \quad 236 \text{ g} \\
 \hline
 26 \text{ kg} \quad 214 \text{ g}
 \end{array}$$

$$\begin{array}{r}
 \text{(b)} \quad 8 \text{ kg} \quad 105 \text{ g} \\
 - 2 \text{ kg} \quad 577 \text{ g} \\
 \hline
 5 \text{ kg} \quad 528 \text{ g}
 \end{array}$$

$$\begin{array}{r}
 \text{(c)} \quad 25 \text{ kg} \quad 000 \text{ g} \\
 - 2 \text{ kg} \quad 440 \text{ g} \\
 \hline
 2 \text{ kg} \quad 256 \text{ g}
 \end{array}$$

$$\begin{array}{r}
 \text{(d)} \quad 9 \text{ kg} \quad 010 \text{ g} \\
 - 3 \text{ kg} \quad 005 \text{ g} \\
 \hline
 6 \text{ kg} \quad 005 \text{ g}
 \end{array}$$

$$\begin{array}{r}
 \text{(e)} \quad 39 \text{ kg} \quad 030 \text{ g} \\
 - 20 \text{ kg} \quad 000 \text{ g} \\
 \hline
 10 \text{ kg} \quad 030 \text{ g}
 \end{array}$$

$$\begin{array}{r}
 \text{(f)} \quad 100 \text{ kg} \quad 100 \text{ g} \\
 - 78 \text{ kg} \quad 000 \text{ g} \\
 \hline
 22 \text{ kg} \quad 100 \text{ g}
 \end{array}$$

$$\text{2.(a)} \quad 16.069$$

$$\text{(b)} \quad 62.685$$

$$\text{(c)} \quad 16.391$$

$$\text{(d)} \quad 3.522$$

$$\text{(e)} \quad 6.220$$

$$\text{(f)} \quad 32.630$$

Exercise 10G

$$\begin{array}{r}
 \text{1. Weight of sugar} \quad 9 \text{ kg} \quad 400 \text{ g} \\
 \text{Weight of Rice} \quad + 5 \text{ kg} \quad 400 \text{ g} \\
 \hline
 \text{Total weight of articles} \quad 14 \text{ kg} \quad 800 \text{ g}
 \end{array}$$

$$\begin{array}{r}
 \text{2. Wright of Potatoes} \quad 4 \text{ kg} \quad 450 \text{ g} \\
 \text{Weight of tomatoes} \quad 7 \text{ kg} \quad 880 \text{ g} \\
 \text{Weight of Lady finger} \quad + 3 \text{ kg} \quad 475 \text{ g} \\
 \hline
 \text{Total weight of vegetables} \quad 15 \text{ kg} \quad 805 \text{ g}
 \end{array}$$

$$\begin{array}{r}
 \text{3. Weight of girl befox} \quad 48 \text{ kg} \quad 000 \text{ g} \\
 \text{Weight lost due to illness} \quad - 2 \text{ kg} \quad 040 \text{ g} \\
 \hline
 45 \text{ kg} \quad 960 \text{ g}
 \end{array}$$

4. Weight of full basket	20 kg 000 g
Weight of empty basket	– 900 g
Qty of water	19 kg 100 g
5. Weight of Suresh	56 kg 989 g
Weight of Sanjog more by	+ 5 kg 870 g
Weight of Sanjog	62 kg 859 g

Exercise 10I

1. (a) $6 \text{ l} = 1 \text{ l} = 1000 \text{ ml}$, $6 \times 1000 = 6000 \text{ ml}$
- (b) $10 \text{ l} = 10 \times 1000 = 10,000 \text{ ml}$
- (c) $2 \text{ l } 450 \text{ ml} = 2 \times 1000 + 450 = 2450 \text{ ml}$
- (d) $18 \text{ l } 36 \text{ ml} = 18 \times 1000 + 36 = 18036 \text{ ml}$
- (e) $7 \text{ l } 8 \text{ ml} = 7 \times 1000 + 8 = 7008 \text{ ml}$
- (f) $16 \text{ l } 439 \text{ ml} = 16 \times 1000 + 439 = 16439 \text{ ml}$
- (g) $38 \text{ l } 38 \text{ ml} = 38 \times 1000 + 38 = 38038 \text{ ml}$
- (h) $3 \text{ l } 3 \text{ ml} = 3 \times 1000 + 3 = 3003 \text{ ml}$
2. (a) $5000 \text{ ml} = 1 \text{ ml} = \frac{1}{1000} \text{ l} = \frac{5000}{1000} = 5 \text{ l}$
- (b) $8006 \text{ ml} = \frac{8006}{1000} = 8.006 = 8 \text{ l } 6 \text{ ml}$
- (c) $3089 \text{ ml} = \frac{3089}{1000} = 3.089 = 3 \text{ l } 89 \text{ ml}$
- (d) $4600 \text{ ml} = \frac{4600}{1000} = 4.600 = 4 \text{ l } 600 \text{ ml}$
- (e) $6009 \text{ ml} = \frac{6009}{1000} = 6.009 = 6 \text{ l } 9 \text{ ml}$
- (f) $45236 \text{ ml} = \frac{45236}{1000} = 45.236 = 45 \text{ l } 236 \text{ ml}$
- (g) $23729 \text{ ml} = \frac{23729}{1000} = 23.729 = 23 \text{ l } 729 \text{ ml}$
- (h) $49000 = \frac{49000}{1000} = 49.000 = 49 \text{ l}$

3. (a) 9000, 5 (b) 8075 (c) 4000, 828
 (d) 7000, 290 (e) 3025 (f) 19000

Exercise 10J

1. (a)
$$\begin{array}{r} 85\text{ l } 002\text{ ml} \\ + 32\text{ l } 004\text{ ml} \\ \hline 117\text{ l } 006\text{ ml} \end{array}$$
 (b)
$$\begin{array}{r} 7\text{ l } 346\text{ ml} \\ + 3\text{ l } 042\text{ ml} \\ \hline 10\text{ l } 388\text{ ml} \end{array}$$
- (c)
$$\begin{array}{r} 89\text{ l } 726\text{ ml} \\ + 45\text{ l } 000\text{ ml} \\ \hline 134\text{ l } 726\text{ ml} \end{array}$$
 (d)
$$\begin{array}{r} 12\text{ l } 003\text{ ml} \\ + 7\text{ l } 452\text{ ml} \\ \hline 19\text{ l } 455\text{ ml} \end{array}$$
- (e)
$$\begin{array}{r} 8\text{ l } 405\text{ ml} \\ + 9\text{ l } 488\text{ ml} \\ \hline 17\text{ l } 893\text{ ml} \end{array}$$
 (f)
$$\begin{array}{r} 1\text{ l } 426\text{ ml} \\ + 99\text{ l } 445\text{ ml} \\ \hline 100\text{ l } 871\text{ ml} \end{array}$$

2. (a)
$$\begin{array}{r} \text{ l } \quad \text{ ml} \\ 5 \quad 372 \\ + 6 \quad 425 \\ \hline 11 \quad 797 \end{array}$$
 (b)
$$\begin{array}{r} \text{ l } \quad \text{ ml} \\ 7 \quad 426 \\ + 3 \quad 172 \\ \hline 10 \quad 598 \end{array}$$
 (c)
$$\begin{array}{r} \text{ l } \quad \text{ ml} \\ \textcircled{1} \quad \textcircled{0} \\ 15 \quad 408 \\ + 75 \quad 128 \\ \hline 90 \quad 536 \end{array}$$
- (d)
$$\begin{array}{r} \text{ l } \quad \text{ ml} \\ 51 \quad 426 \\ 25 \quad 722 \\ + 31 \quad 236 \\ \hline 108 \quad 384 \end{array}$$
 (e)
$$\begin{array}{r} \text{ l } \quad \text{ ml} \\ 19 \quad 290 \\ 20 \quad 005 \\ + 12 \quad 067 \\ \hline 51 \quad 362 \end{array}$$
 (f)
$$\begin{array}{r} \text{ l } \quad \text{ ml} \\ 77 \quad 425 \\ 10 \quad 005 \\ + 3 \quad 067 \\ \hline 90 \quad 497 \end{array}$$

Exercise 10K

1. (a)
$$\begin{array}{r} 98\text{ l } 045\text{ ml} \\ - 63\text{ l } 425\text{ ml} \\ \hline 34\text{ l } 620\text{ ml} \end{array}$$
 (b)
$$\begin{array}{r} 80\text{ l } 005\text{ ml} \\ - 27\text{ l } 026\text{ ml} \\ \hline 52\text{ l } 979\text{ ml} \end{array}$$
- (c)
$$\begin{array}{r} 90\text{ l } 450\text{ ml} \\ - 44\text{ l } 372\text{ ml} \\ \hline 46\text{ l } 078\text{ ml} \end{array}$$
 (d)
$$\begin{array}{r} 75\text{ l } 326\text{ ml} \\ - 12\text{ l } 235\text{ ml} \\ \hline 63\text{ l } 091\text{ ml} \end{array}$$
2. (a) 2.581 (b) 1.688 (c) 29.480
 (d) 50.160 (e) 18.801 (f) 10.189

Exercise 10L

- | | |
|---|--|
| 1. 8 l 454 ml is more by 1 l 396 ml | $\begin{array}{r} 8 \text{ l } 454 \text{ ml} \\ - 7 \text{ l } 058 \text{ ml} \\ \hline 1 \text{ l } 396 \text{ ml} \end{array}$ |
| 2. Qty of cold drink in jug
Qty taken out by Sunita
Qty left in Jug | $\begin{array}{r} 2 \text{ l } 400 \text{ ml} \\ - 435 \text{ ml} \\ \hline 1 \text{ l } 965 \text{ ml} \end{array}$ |
| 3. Petrol in the car
Petrol left in the car
Petrol used in Journey | $\begin{array}{r} 20 \text{ l } 500 \text{ ml} \\ - 4 \text{ l } 785 \text{ ml} \\ \hline 15 \text{ l } 715 \text{ ml} \end{array}$ |
| 4. Refined oil sold to customers - | $\begin{array}{r} 14 \text{ l } 250 \text{ ml} \\ 20 \text{ l } 440 \text{ ml} \\ + 13 \text{ l } 200 \text{ ml} \\ \hline 47 \text{ l } 890 \text{ ml} \end{array}$ |
| Qty of Refined oil with shopkeeper | $70 \text{ l } 000 \text{ ml}$ |
| Oil left with shopkeeper | $\begin{array}{r} - 47 \text{ l } 890 \text{ ml} \\ \hline 22 \text{ l } 110 \text{ ml} \end{array}$ |
| 5. Qty of oil in tin
Tin wasted due to leakage
Oil left | $\begin{array}{r} 14 \text{ l } 340 \text{ ml} \\ - 985 \text{ ml} \\ \hline 13 \text{ l } 355 \text{ ml} \end{array}$ |

Chapter 11 : Time and Calendar

Exercise 11A

1. (a) 8 : 00 (b) 9 : 20 (c) 9 : 30
(d) 3 : 45 (e) 2 : 55 (f) 12 : 00
2. Do yourself

Exercise 11B

1. (a) hour hand (b) hour band
(c) 60 minutes (d) 60 seconds
2. (a) p.m. (b) a.m. (c) 10 : 10 a.m. (d) 12 : 50 a.m.

Exercise 11C

1. (a) 1 (b) 1 (c) 60
(d) 7 (e) 365 (f) 366
2. (a) 3 months = 1 month = 30 days
3 months = $3 \times 30 = 90$ days
(b) 5 weeks = $5 \times 30 = 150$ days
(c) 6 weeks = 1 week = 7 days
6 weeks = $6 \times 7 = 42$ days
(d) 12 weeks = $12 \times 7 = 84$ days
(e) 2 months 4 weeks = $(2 \times 30) + 4 \times 7$
 $60 + 28 = 88$ days
(f) 8 weeks 3 days = $(8 \times 7) + 3$
 $= 56 + 3 = 59$ days
3. (a) 5 days = 1 day = 24 hrs
5 days = $5 \times 24 = 120$ hours
(b) 13 days = $13 \times 24 = 312$ hrs.
(c) 30 days = $30 \times 24 = 720$ hours
(d) 8 days 6 hrs = $(8 \times 24) + 6$
 $192 + 6 = 198$ hrs
(e) 15 days 10 hrs = $(15 \times 24) + 10$
 $360 + 10 = 370$ hrs
(f) 1 week 7 hrs.
1 week = 7 days
7 days = $7 \times 24 = 168$ hours = $168 + 7 = 175$ hours
4. (a) 6 hrs = 1 hr = 60 min
 $6 \times 60 = 360$ min
(b) 9 hrs = $9 \times 60 = 540$ min
(c) 14 hrs = $14 \times 60 = 840$ min
(d) 3 days = $3 \times 24 = 72$ hours
 $72 \times 60 = 4320$ min
(e) 15 hr 30 min = $(15 \times 60) + 30$
 $900 + 30 = 930$ min

5. (a) $4 \text{ min} = 1 \text{ min} = 60 \text{ seconds}$
 $4 \times 60 = 240 \text{ sec}$
 (b) $7 \text{ min} = 7 \times 60 = 420 \text{ sec}$
 (c) $12 \text{ min} = 12 \times 60 = 720 \text{ sec}$
 (d) $10 \text{ min } 12 \text{ sec} = (10 \times 60) + 12$
 $600 + 12 = 612 \text{ sec}$
 (e) $14 \text{ min } 40 \text{ sec} = (14 \times 60) + 40$
 $840 + 40 = 880 \text{ sec}$
 (f) $20 \text{ min } 20 \text{ sec} = (20 \times 60) + 20$
 $1200 + 20 = 1220 \text{ sec}$

Chapter 12 : Geometry

Exercise 12A

1. Do yourself

2. (a) point (b) one (c) no (d) two
3. (a) points A, B, C, D = Line segment AB, BC, BD, AC
 (b) Points P, Q, R, S, T, U
 Line Segment PQ, QR, RS, ST, TU, UP
 (c) Points X, Y, Z, V, W
 Line Segment XW, VW, VZ, ZY, YZ, WZ, XY

Exercise 12B

1. (a) Rectangle (b) Circle (c) Triangle
 (d) Square (e) Triangle (f) Rectangle
2. (a) two (b) no, no (c) four, four (d) All, equal

Mental Maths

- A. (a) $50 + 8 + 16 = (74)$ (i)
 (b) $14 + 50 + 15 = 79$ (ii)
 (c) $5 + 10 + 24 = 39$ (iii)
 (d) $6 + 20 + 90 = 116$ (iv)
 (e) $18 + 21 + 10 = 49$ (ii)

B. Total distance covert

$$\begin{array}{r}
 8 \text{ km } 580 \text{ m} \\
 2 \text{ km } 780 \text{ m} \\
 3 \text{ km } 200 \text{ m} \\
 1 \text{ km } 180 \text{ m} \\
 \hline
 2 \text{ km } 590 \text{ m} \\
 \hline
 \underline{18 \text{ km } 330 \text{ m}}
 \end{array}$$

- C.** (a) 15 minutes (b) 3 past 15 min
(c) 12 : 00 (d) 5 past 45 min
(e) 8 past 45 min
- D.** (a) Circle (b) Rectangle (c) Circle
(d) Rectangle (e) Triangle

