

A BOOK OF MATHEMATICS

Teacher Manual Class-3

Chapter-1 (Revision)

1. Write the numerals for :

- (a) Four hundred sixty eight = 468
- (b) Nine hundred seventy = 970
- (c) Two hundred ninety one = 291
- (d) Seven hundred thirty three = 733
- (e) Nine hundred forty two = 942

2. Write the following numbers in words :

- (a) Three hundred ninety eight
- (b) Three hundred seven
- (c) Five hundred forty-two
- (d) Eight hundred eighty-five
- (e) Nine hundred ninety-four

3. Observe the pattern and fill in the blanks :

- (a) 10, 20, 30, 40, **50, 60, 70**
- (b) 32, 34, 36, 38, **40, 42, 44**
- (c) 165, 175, 185, 195, **205, 215, 225**
- (d) 410, 430, 450, 470, **490, 510, 530**

4. Counting by five, write the numerals from 740 to 770

- (a) 740, **745, 750, 755, 760, 765, 770**
- (b) 237, **242, 247, 252, 257, 262**

5. How many numbers are there in all, having :

- (a) 1-digit 9 (b) 2-digit 90
- (c) 3-digit 900

6. Fill in the blanks :

- (a) The greatest number of three digit is **999**
- (b) The smallest number of three digit is **100**
- (c) The smallest number using of two digit is **10**

7. Write the smallest number using all the following digits Only once :

- (a) 2, 0, 5 **205** (b) 3, 1, 2 **123**

8. Write the greatest number using all the following digits only once :

- (a) 3, 5, 4 **543** (b) 5, 8, 2 **852**

9. Compare the numbers and put > or < in between :

- (a) $256 < 283$ (b) $355 > 210$
- (c) $59 < 325$ (d) $289 < 348$
- (e) $550 < 836$ (f) $995 > 728$
- (g) $455 > 454$ (h) $548 < 584$
- (i) $588 < 688$

10. Sonali marks = 584

Rahul's marks = 290

Suresh's marks = 287

So, First position = Sonali

Second position = Rahul

Third position = Suresh's

11. Write the successor and predecessor of the following numbers :

	No.	Successor	Predecessor
(a)	56	$56 + 1 = 57$	$56 - 1 = 55$
(b)	47	$47 + 1 = 48$	$47 - 1 = 46$
(c)	109	$109 + 1 = 110$	$109 - 1 = 108$
(d)	295	$295 + 1 = 296$	$295 - 1 = 294$
(e)	183	$183 + 1 = 184$	$183 - 1 = 182$
(f)	540	$540 + 1 = 541$	$540 - 1 = 539$
(g)	900	$900 + 1 = 901$	$900 - 1 = 899$
(h)	508	$508 + 1 = 509$	$508 - 1 = 507$

12. Arrange the following numbers in increasing order :

- (a) Increasing order = 300, 610, 614, 732, 834
 (b) Increasing order = 640, 650, 710, 832, 950
 (c) Increasing order = 125, 295, 610, 790, 800

13. Arrange the following numbers in decreasing order :

- (a) Decreasing order = 450, 378, 316, 253, 250
 (b) Decreasing order = 910, 578, 419, 313, 250
 (c) Decreasing order = 800, 750, 270, 214, 115

14. Fill in the blanks :

- (a) $300 + 40 + 9 = \mathbf{349}$
 (b) $500 + 60 + 4 = \mathbf{564}$
 (c) $800 + 10 + 3 = \mathbf{813}$
 (d) $900 + 50 + 7 = \mathbf{957}$
 (e) $900 + 40 + 8 = \mathbf{948}$

15. Find the sum :

- | | |
|--|--|
| (a) $\begin{array}{r} 612 \\ + 173 \\ \hline \end{array}$ | (b) $\begin{array}{r} 841 \\ + 138 \\ \hline \end{array}$ |
| $\boxed{785}$ | $\boxed{979}$ |
| (c) $\begin{array}{r} 361 \\ + 223 \\ \hline \end{array}$ | (d) $\begin{array}{r} 321 \\ + 134 \\ \hline \end{array}$ |
| $\boxed{584}$ | $\boxed{455}$ |
| (e) $\begin{array}{r} 163 \\ 124 \\ + 610 \\ \hline \end{array}$ | (f) $\begin{array}{r} 340 \\ 239 \\ + 160 \\ \hline \end{array}$ |
| $\boxed{897}$ | $\boxed{739}$ |

16. Subtract :

- | | |
|---|---|
| (a) $\begin{array}{r} 476 \\ - 143 \\ \hline \end{array}$ | (b) $\begin{array}{r} 483 \\ - 263 \\ \hline \end{array}$ |
| $\boxed{333}$ | $\boxed{220}$ |
| (c) $\begin{array}{r} 690 \\ - 594 \\ \hline \end{array}$ | (d) $\begin{array}{r} 173 \\ - 287 \\ \hline \end{array}$ |
| $\boxed{096}$ | $\boxed{186}$ |

- (e) $\begin{array}{r} 925 \\ - 626 \\ \hline \end{array}$

$$\boxed{299}$$

- (f) $\begin{array}{r} 681 \\ - 421 \\ \hline \end{array}$

$$\boxed{260}$$

17. In a birthday party there are
 Men = 225
 Women = 125
 Children = 64
 So the total no. of person = $\boxed{414}$

18. 9 8 5 number is more

$$\begin{array}{r} - 210 \\ \hline 775 \end{array} \text{ is more}$$

19. Fill in the blanks :

- (a) $8 \times 5 = \mathbf{40}$ (b) $5 \times 3 = 15$
 (c) $9 \times 6 = \mathbf{54}$ (d) $6 \times 6 = 36$
 (e) $8 \times 7 = \mathbf{56}$ (f) $25 \times 9 = \mathbf{225}$

20. Multiply the following :

- | | |
|--|---|
| (a) $\begin{array}{r} 8 \\ \times 7 \\ \hline \end{array}$ | (b) $\begin{array}{r} 12 \\ \times 1 \\ \hline \end{array}$ |
| $\boxed{56}$ | $\boxed{12}$ |
| (c) $\begin{array}{r} 125 \\ \times 3 \\ \hline \end{array}$ | (d) $\begin{array}{r} 39 \\ \times 8 \\ \hline \end{array}$ |
| $\boxed{375}$ | $\boxed{312}$ |
| (e) $\begin{array}{r} 43 \\ \times 9 \\ \hline \end{array}$ | (f) $\begin{array}{r} 66 \\ \times 5 \\ \hline \end{array}$ |
| $\boxed{387}$ | $\boxed{330}$ |

21. Divide the following :

- | | |
|--|---|
| (a) $\begin{array}{r} 3 \overline{)18} 6 \\ - 18 \\ \hline \end{array}$ | (b) $\begin{array}{r} 5 \overline{)45} 9 \\ - 45 \\ \hline \end{array}$ |
| $\times$ | $\times$ |
| (c) $\begin{array}{r} 5 \overline{)20} 4 \\ - 20 \\ \hline \end{array}$ | (d) $\begin{array}{r} 3 \overline{)27} 9 \\ - 27 \\ \hline \end{array}$ |
| $\times$ | $\times$ |
| (e) $\begin{array}{r} 5 \overline{)50} 10 \\ - 50 \\ \hline \end{array}$ | (f) $\begin{array}{r} 4 \overline{)24} 6 \\ - 24 \\ \hline \end{array}$ |
| $\times$ | $\times$ |

22. In a basket there are = 90 apples
In 5 such baskets there are = $90 \times 5 =$
450 apples

23. A rabbit jumps = 3 Steps to reach = 12
So, 1 step to reach = $\frac{12}{3} = 4$
 $\therefore$ 24 reach = $\frac{24}{4} =$ **6 steps**

24. Write the fraction for the coloured part :

(a) $\frac{1}{2}$ (b) $\frac{1}{2}$ (c) $\frac{3}{4}$

25. Sonam bought, Red ribbon = 6 m 40 cm
Green ribbon = 3 m 20 cm
So, the total length of the ribbons she bought =

$$\begin{array}{r} \text{m} \quad \text{cm} \\ 6 \quad 40 \\ + 3 \quad 20 \\ \hline 9 \quad 60 \end{array}$$

26. The length of blue thread = 38 m 40 cm
Green thread = 36 m 44 cm
So, the blue thread is longer.

$$\begin{array}{r} \text{m} \quad \text{cm} \\ 38 \quad 40 \\ - 36 \quad 44 \\ \hline 1 \text{ m } 96 \text{ cm} \end{array}$$

27. Rama purchased, wheat = 6 kg 600 gm

Rice = 3 kg 650 gm

So, total weight =

$$\begin{array}{r} \text{kg} \quad \text{gm} \\ 6 \quad 600 \\ + 3 \quad 650 \\ \hline 10 \quad 250 \end{array}$$

28. Weight of Akshay was = 48 kg

He lost his weight = 3 kg 280 g

Now, weight he has =

$$\begin{array}{r} \text{kg} \quad \text{gm} \\ 48 \quad 000 \\ + 3 \quad 280 \\ \hline 44 \quad 720 \end{array}$$

29. A woman bought vegetables for rupees = 58 ₹ 40 P

Fruits for rupees = 40 ₹ 70 P

So, she spend =

$$\begin{array}{r} \text{₹} \quad \text{P} \\ 58 \quad 40 \\ + 40 \quad 70 \\ \hline 99 \quad 10 \end{array}$$

30. The price of the pen =
- $$\begin{array}{r} \text{₹} \quad 100.00 \\ - \text{₹} \quad 45.75 \\ \hline \text{₹} \quad 54.25 \end{array}$$

31. Sonam cow gives milk = 6 l 540 ml
Her Buffalo gives milk = 12 l 400 ml
So, her pets gives her milk everyday

$$\begin{array}{r} \text{l} \quad \text{ml} \\ 6 \quad 540 \\ + 12 \quad 400 \\ \hline 18 \quad 940 \end{array}$$

32. A shopkeeper had mustard oil = 48 l 300 ml

He sold = 26 l 875 ml

So, the left quantity of oil =

$$\begin{array}{r} \text{l} \quad \text{ml} \\ 48 \quad 300 \\ - 26 \quad 875 \\ \hline 21 \quad 425 \end{array}$$

33. Read and write the time in the given clocks :

(a) 12:35 (b) 12:45 (c) 2:20

34. Do it yourself.

35. Fill in the blanks:

- (a) A battery cell looks like a **cylinder**.
(b) A book looks like a **rectangular**.
(c) Three edges meet at a **vertex**.
(d) A sphere has one **spherical** face.
(e) A cube has **six** faces.

36. Observe the following patterns and extend them up to next three places :

(a) **W M W** (b) $\leftarrow \downarrow \leftarrow$

37. Observe the pattern and write the numbers that follow in each series :

(a) 271 274 277 **280 283 286 289 292**

Chapter-2 (Four-Digit Numbers)**1. Write all the numbers between :**

(a)	(b)	(c)	(d)	(e)
1010	1126	1245	5888	4999
1011	1127	1246	5889	5000
1012	1128	1247	5890	5001
1013	1129	1248	5891	5002
1014	1130	1249	5892	5003
1015	1131	1250	5893	5004
1016	1132	1251	5894	5005
1017	1133	1252	5895	5006
1018	1134	1253	5896	5007
1019	1135	1254	5897	5008

2. Write the numerals for:

- (a) Two thousand five = 2005
 (b) One hundred four hundred fifty four = 1454
 (c) Five thousand five hundred forty = 5540
 (d) Eight thousand two hundred twelve = 8212
 (e) Six thousand five hundred fifty = 6550
 (f) Four thousand four hundred four = 4404
 (g) Nine thousand four hundred five = 9405
 (h) Seven thousand six hundred thirty one = 7631

3. Write the following numbers in words:

- (a) 1799 = One thousand seven hundred ninety-nine
 (b) 2308 = Two thousand three hundred eight
 (c) 3718 = Three thousand seven hundred eighteen
 (d) 5009 = Five thousand nine
 (e) 5680 = Five thousand six hundred eighty

- (f) 6044 = Six thousand forty-four
 (g) 7850 = Seven thousand eight hundred fifty
 (h) 9546 = Nine thousand five hundred forty-six

4. Fill in the blanks:

- (a) 5 thousands 4 hundreds 9 tens 5 ones
 (b) 1 thousand 3 hundreds 9 tens 6 ones
 (c) 4 thousands 5 hundreds 9 tens 3 ones
 (d) 6 thousands 3 hundreds 3 tens 6 ones
 (e) 4 thousands 5 hundreds 1 ten 6 ones
 (f) 2 thousands 3 hundreds 5 tens 6 ones
 (g) 5 thousands 5 hundreds 3 tens 8 ones
 (h) 5 thousands 5 hundreds 1 tens 4 ones

5. Write the numerals for :

- (a) $1000 + 100 + 10 + 4 = \mathbf{1114}$
 (b) $2000 + 100 + 20 + 6 = \mathbf{2126}$
 (c) $3000 + 200 + 40 + 5 = \mathbf{3245}$
 (d) $5000 + 600 + 80 + 9 = \mathbf{5689}$
 (e) $4000 + 200 + 30 + 0 = \mathbf{4230}$
 (f) $6000 + 900 + 80 + 1 = \mathbf{6981}$
 (g) $9000 + 400 + 50 + 3 = \mathbf{9453}$
 (h) $8000 + 300 + 60 + 6 = \mathbf{8366}$

6. Rewrite the following numbers interchanging the digit at the thousands and ones place :

- (a) 2229 **9222** (b) 5296 **6295**
 (c) 8545 **5548** (d) 6572 **2576**

7. Write the following numbers using the digits in reversed order :

- (a) 2578 **8752** (b) 4721 **1274**
 (c) 6145 **5416** (d) 8998 **8998**

8. Write the place value of 5 in the following numbers :

- (a) 1517 **500** (b) 2056 **50**
 (c) 5216 **5000** (d) 8315 **5**

9. 4 0 0

- 4

3 9 6

10. 8 0 0

- 8

7 9 2

11. Write the place and place value of the coloured digit in each of the following numerals :

	Numerals	Place	Place Value
(a)	2518	Ones	8
(b)	5624	Hundreds	600
(c)	4537	Tens	30
(d)	2314	Thousand	2000
(e)	6 814	Thousand	6000
(f)	4 5 25	Thousand	500
(g)	8 116	Thousand	8000
(h)	5615	Tens	10
(i)	6 217	Thousand	6000
(j)	5719	Thousand	700
(k)	9 536	Thousand	9000

Exercise Time - 2.2

1. Observe the pattern and write the next four numbers :

- (a) 1655, 1660, 1665, 1670
- (b) 1434, 1436, 1438, 1440
- (c) 1980, 1970, 1960, 1950
- (d) 3712, 3710, 3708, 3706
- (e) 2010, 2011, 2012, 2013
- (f) 3472, 3476, 3480, 3484
- (g) 560, 555, 550, 545
- (h) 6784, 6782, 6780, 6778

2. Write the greatest and smallest number using all the following digits only once :

		Greatest No.	Smallest No.
(a)	1, 0, 5, 4	5410	1045

(b)	2, 0, 0, 5	5200	2005
(c)	2, 4, 7, 8	8742	2478
(d)	4, 7, 1, 6	7641	1467
(e)	5, 5, 7, 5	7555	5557

3. Write the successor and predecessor of following numbers :

	No.	Successor	Predecessor
(a)	2454	$2454 + 1 = 2455$	$2454 - 1 = 2453$
(b)	2009	$2009 + 1 = 2010$	$2009 - 1 = 2008$
(c)	5296	$5296 + 1 = 5297$	$5296 - 1 = 5295$
(d)	4731	$4731 + 1 = 4732$	$4731 - 1 = 4730$
(e)	3728	$3728 + 1 = 3729$	$3728 - 1 = 3727$

4. Compare the numbers and put > or < in between :

- (a) $6731 > 2365$
- (b) $2548 < 2796$
- (c) $4310 > 3932$
- (d) $4715 < 4948$
- (e) $1217 < 2100$
- (f) $7216 < 8796$
- (g) $2010 < 6215$
- (h) $2136 > 2115$

5. Encircle the greatest in each of the following:

- (a) 336, 5024, 5228, 5240, 5560
- (b) 2016, 2176, 2445, **596**, 2310
- (c) **265**, 4996, 2544, 3008, 2556
- (d) 6110, 4545, 4278, **2214**, 3544
- (e) 2025, 2019, 4791, 2144, **293**

6. Encircle the smallest in each of the following:

- (a) 5255, 5259, 3447, **5650**, 2510
- (b) 1156, 946, **2514**, 255, 994
- (c) 76, 766, 7660, 8780, **9890**
- (d) 99, 999, 1864, 4101, **5333**
- (e) **9214**, 864, 8036, 1194, 6554

7. Say whether the following numbers are arranged in ascending or descending order :

- (a) Ascending order
- (b) Ascending order
- (c) Descending order
- (d) Descending order
- (e) Descending order

8. Arrange the following numbers in descending (decreasing) order :

- (a) Descending order 5694, 5590, 5211, 265, 65
- (b) Descending order 6210, 5318, 4315, 298, 218
- (c) Descending order 3728, 3624, 3231, 3049, 2458
- (d) Descending order 9500, 8514, 8156, 7364, 7231
- (e) Descending order 9576, 8444, 4215, 2117, 856

9. Arrange the following numbers in ascending (increasing) order :

- (a) Ascending order 293, 826, 9230, 9541, 9948
- (b) Ascending order 405, 419, 5156, 5291, 5480
- (c) Ascending order 889, 1216, 2515, 7310, 8009
- (d) Ascending order 534, 543, 7215, 7244, 7338
- (e) Ascending order 1243, 6000, 6009, 6119, 6214

10. Greatest number of four digits = 9999

11. Smallest number of four digits = 1000

12. Largest 4 digit number = 9999

And the successor of greatest 3-digit number = $999 + 1 = 1000$

$\therefore$ No, the largest 4-digit number is not the successor of greatest 3-digit number.

13. Largest 3-digit number = 999

And the predecessor of the smallest 4-digit number = $1000 - 1 = 999$

So, the largest 3-digit number is the predecessor of smallest 4-digit number

14. Smallest number of four digit = 1000

And the predecessor of the greatest three-digit number = $999 - 1 = 998$

So, No the smallest number of four digit is not the predecessor of the greatest three-digit number.

15. The population of Village A = 8775

Village B = 8915

So, Village B has more population

16. Number of students in Kids Zone Public School = 1470

And Godwin public School = 1380

So, Kids Zone Public School has more students.

Chapter-3 (Roman Numerals)

Exercise Time - 3

1. Write the Roman numerals for the following :

- (a) 7 **VII** (b) 18 **XVIII**
- (c) 25 **XXV** (d) 38 **XXXVIII**
- (e) 17 **XVII** (f) 30 **XXX**
- (g) 35 **XXXV** (h) 39 **XXXIX**
- (i) 32 **XXXII**

2. Write the Hindu- Arabic numerals for the following :

- (a) IX **9** (b) XXIV **24**
- (c) XIV **14** (d) XXVI **26**
- (e) XXIX **29** (f) XXX **30**
- (g) XV **15** (h) XXXVIII **38**
- (i) XVIII **18**

3. Tick (✓) the correct and cross (X) the incorrect numerals :

- (a) XIII **✓** (b) VVII **X**
- (c) XIV **X** (d) XXVI **✓**
- (e) XXXX **X** (f) XXX **✓**
- (g) XV **✓** (h) IIXX **X**
- (i) XXIV **✓**

Chapter-4 (Addition of four-digit Numbers)

Exercise Time - 4.1

1. Fill in the blanks without adding :

- (a) $566 + 290 = 290 + \mathbf{566}$
- (b) $2476 + 3415 = 3415 + \mathbf{2476}$

- (c) $(273 + 219) + 148 = 273 + (219 + 148)$
 (d) $(2593 + 1382) + 635 = 2593 + (1382 + 635)$
 (e) $(8290 + 1524) + 290 = 8290 + (1524 + 290)$
 (f) $(1915 + 1348) + 1681 = 1915 + (1348 + 1681)$
 (g) $0 + 2531 = 2531$
 (h) $1890 + 0 = 1890$
 (i) $0 + 9534 = 9534$
 (j) $0 + 5690 = 5690$

2. Add the following :

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

- (e)
$$\begin{array}{r} \text{Th H T O} \\ 3\ 0\ 5 \\ 5\ 3 \\ + 3\ 1\ 4\ 1 \\ \hline 3\ 4\ 9\ 9 \end{array}$$
- (f)
$$\begin{array}{r} \text{Th H T O} \\ 5\ 6\ 1\ 4 \\ 1\ 7\ 3 \\ + 2\ 0\ 2 \\ \hline 5\ 9\ 8\ 9 \end{array}$$
- (g)
$$\begin{array}{r} \text{Th H T O} \\ 3\ 1\ 4\ 0 \\ 6\ 0\ 1 \\ + 1\ 5\ 2 \\ \hline 3\ 8\ 9\ 3 \end{array}$$
- (h)
$$\begin{array}{r} \text{Th H T O} \\ 7\ 1\ 8\ 0 \\ 4\ 0\ 3 \\ + 2\ 0\ 0\ 1 \\ \hline 9\ 5\ 8\ 4 \end{array}$$
- (i)
$$\begin{array}{r} \text{Th H T O} \\ 7\ 6\ 1\ 2 \\ 1\ 2\ 1 \\ + 3\ 6\ 0 \\ \hline 8\ 0\ 9\ 3 \end{array}$$
- (j)
$$\begin{array}{r} \text{Th H T O} \\ 2\ 3\ 0\ 5 \\ 5\ 1\ 2 \\ + 2\ 0\ 8\ 2 \\ \hline 4\ 8\ 9\ 9 \end{array}$$
- (k)
$$\begin{array}{r} \text{Th H T O} \\ 2\ 0\ 0\ 1 \\ 5\ 0\ 6 \\ + 7\ 3\ 9\ 1 \\ \hline 9\ 8\ 9\ 8 \end{array}$$
- (l)
$$\begin{array}{r} \text{Th H T O} \\ 2\ 1\ 3\ 1 \\ 1\ 4\ 1\ 2 \\ + 6\ 2\ 5\ 3 \\ \hline 9\ 7\ 9\ 6 \end{array}$$
- (m)
$$\begin{array}{r} \text{Th H T O} \\ 4\ 0\ 1\ 5 \\ 1\ 2\ 1\ 1 \\ + 2\ 4\ 1 \\ \hline 5\ 4\ 6\ 7 \end{array}$$
- (n)
$$\begin{array}{r} \text{Th H T O} \\ 5\ 3\ 1\ 2 \\ 2\ 0\ 3 \\ + 1\ 4\ 0 \\ \hline 5\ 6\ 5\ 5 \end{array}$$

3. Write the columns and add :

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

Exercise Time - 4.2

1. Add the following :

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

(e) Th H T O

$$\begin{array}{r} \boxed{1}\boxed{1} \\ 5\ 1\ 7\ 8 \\ + 3\ 4\ 6\ 5 \\ \hline \boxed{8\ 6\ 4\ 3} \end{array}$$

(f) Th H T O

$$\begin{array}{r} \boxed{1}\boxed{1} \\ 6\ 1\ 5\ 7 \\ + 1\ 5\ 6\ 4 \\ \hline \boxed{7\ 7\ 2\ 1} \end{array}$$

(g) Th H T O

$$\begin{array}{r} \boxed{1}\boxed{1}\boxed{1} \\ 3\ 7\ 8\ 9 \\ + 1\ 2\ 3\ 2 \\ \hline \boxed{5\ 0\ 2\ 1} \end{array}$$

(h) Th H T O

$$\begin{array}{r} \boxed{1}\boxed{1} \\ 3\ 6\ 8\ 2 \\ + 2\ 1\ 3\ 9 \\ \hline \boxed{5\ 8\ 2\ 1} \end{array}$$

(i) Th H T O

$$\begin{array}{r} \boxed{1}\boxed{1} \\ 3\ 5\ 9\ 2 \\ + 1\ 3\ 2\ 8 \\ \hline \boxed{4\ 9\ 2\ 0} \end{array}$$

2. (a) Th H T O

$$\begin{array}{r} \boxed{1}\boxed{2}\boxed{1} \\ 2\ 4\ 8\ 9 \\ 1\ 5\ 8\ 3 \\ + 4\ 2\ 3\ 5 \\ \hline \boxed{8\ 3\ 0\ 7} \end{array}$$

(b) Th H T O

$$\begin{array}{r} \boxed{1}\boxed{1}\boxed{1} \\ 2\ 5\ 6\ 4 \\ 1\ 3\ 9\ 0 \\ + 3\ 4\ 0 \\ \hline \boxed{4\ 2\ 9\ 4} \end{array}$$

(c) Th H T O

$$\begin{array}{r} \boxed{1}\boxed{1} \\ 4\ 2\ 1\ 6 \\ 1\ 1\ 6\ 8 \\ + 2\ 3\ 8 \\ \hline \boxed{5\ 6\ 2\ 2} \end{array}$$

(d) Th H T O

$$\begin{array}{r} \boxed{1}\boxed{2}\boxed{1} \\ 3\ 5\ 9\ 8 \\ 1\ 3\ 9\ 0 \\ + 2\ 4\ 8 \\ \hline \boxed{5\ 2\ 3\ 6} \end{array}$$

(e) Th H T O

$$\begin{array}{r} \boxed{1}\boxed{2} \\ 2\ 2\ 8\ 4 \\ 1\ 2\ 0\ 8 \\ + 2\ 1\ 8\ 9 \\ \hline \boxed{5\ 6\ 8\ 1} \end{array}$$

(f) Th H T O

$$\begin{array}{r} \boxed{1}\boxed{1} \\ 1\ 1\ 6\ 4 \\ 2\ 1\ 5\ 8 \\ + 1\ 2\ 9\ 6 \\ \hline \boxed{4\ 6\ 1\ 8} \end{array}$$

Th H T O

$$\begin{array}{r} \boxed{1}\boxed{2}\boxed{1} \\ 1\ 7\ 8\ 9 \\ 2\ 2\ 0\ 6 \\ + 2\ 3\ 3\ 6 \\ \hline \boxed{6\ 3\ 3\ 1} \end{array}$$

2. The total sale for three days

Th H T O

$$\begin{array}{r} \boxed{1}\boxed{1}\boxed{1} \\ 2\ 2\ 7\ 6 \longrightarrow \text{Thursday} \\ 3\ 0\ 0\ 8 \longrightarrow \text{Friday} \\ + 1\ 6\ 5\ 6 \longrightarrow \text{Saturday} \\ \hline \boxed{6\ 9\ 3\ 0} \end{array}$$

3. The total number of bags in store

Th H T O

$$\begin{array}{r} \boxed{1}\boxed{2}\boxed{1} \\ 2\ 2\ 8\ 3 \longrightarrow \text{Wheat} \\ 1\ 6\ 8\ 1 \longrightarrow \text{Rice} \\ + 3\ 2\ 8\ 9 \longrightarrow \text{Sugar} \\ \hline \boxed{7\ 2\ 5\ 3} \end{array}$$

4. Total cattle are there in village =

Th H T O

$$\begin{array}{r} \boxed{1}\boxed{1}\boxed{2} \\ 2\ 7\ 6\ 7 \longrightarrow \text{Cows} \\ 3\ 2\ 1\ 8 \longrightarrow \text{Buffaloes} \\ + 5\ 6\ 6 \longrightarrow \text{Other} \\ \hline \boxed{6\ 5\ 5\ 1} \end{array}$$

5. Arjun had Coke = 1275

Limca = 887

Pepsi = 1674

So, the total number of bottle in his shop =

Th H T O

$$\begin{array}{r} \boxed{1}\boxed{2}\boxed{1} \\ 1\ 2\ 7\ 5 \\ 8\ 8\ 7 \\ + 1\ 6\ 7\ 4 \\ \hline \boxed{3\ 8\ 3\ 6} \end{array}$$

6. A shopkeeper sold, Idlis = 1295

Vadas = 786

Dosas = 237

Exercise Time - 4.3

1. A fruits seller has oranges = 1789

Bananas = 2206

Mangoes = 2336

So, the fruits does he has in the shop =

So, the total eatables he sell =

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

7. In these three days the person visited =

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

8. In three successive day a tubelight produce = 1578, 1664, 2632

So, the total number of tubelight produced in three days

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

9. A man purchased a LED TV monitor = 4972

Mobile = 2587

And Camera = 1665

So, he pay for his purchased =

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

10. Ramautar votes = 2886,
Sarathak Votes = 2790
Rejected votes = 164
So, the polled votes are =

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

Chapter-5 (Subtraction of four-digit numbers)

Exercise Time - 5.1

1. Subtract :

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

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

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

(g) $\begin{array}{r} \text{Th H T O} \\ 6\ 2\ 8\ 7 \\ - 5\ 1\ 7\ 5 \\ \hline 5\ 1\ 1\ 2 \end{array}$	(h) $\begin{array}{r} \text{Th H T O} \\ 4\ 2\ 5\ 6 \\ - 2\ 1\ 3\ 3 \\ \hline 2\ 1\ 2\ 3 \end{array}$
---	---

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

(k) $\begin{array}{r} \text{Th H T O} \\ 9\ 5\ 2\ 7 \\ - 5\ 3\ 0\ 6 \\ \hline 4\ 2\ 2\ 1 \end{array}$	(l) $\begin{array}{r} \text{Th H T O} \\ 4\ 7\ 6\ 8 \\ - 1\ 2\ 3\ 4 \\ \hline 3\ 5\ 3\ 4 \end{array}$
---	---

2. Subtract the following and check your answer :

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

Checking the answer

$$\begin{array}{r} \text{Smaller Number} \rightarrow 4 \ 2 \ 3 \ 7 \\ \text{Answer} \quad \quad \quad + 4 \ 3 \ 3 \ 1 \\ \hline 8 \ 5 \ 6 \ 8 \end{array}$$

$$\begin{array}{r} \text{(b) Th H T O} \\ 9 \ 5 \ 6 \ 4 \\ - 5 \ 3 \ 4 \ 1 \\ \hline 4 \ 2 \ 2 \ 3 \\ \text{Smaller Number} \rightarrow 5 \ 3 \ 4 \ 1 \\ \text{Answer} \quad \quad \quad + 4 \ 2 \ 2 \ 3 \\ \hline 9 \ 5 \ 6 \ 4 \end{array}$$

$$\begin{array}{r} \text{(c) Th H T O} \\ 6 \ 7 \ 5 \ 4 \\ - 2 \ 3 \ 2 \ 0 \\ \hline 4 \ 4 \ 3 \ 4 \\ \text{Smaller Number} \rightarrow 2 \ 3 \ 2 \ 0 \\ \text{Answer} \quad \quad \quad + 4 \ 4 \ 3 \ 4 \\ \hline 6 \ 7 \ 5 \ 4 \end{array}$$

$$\begin{array}{r} \text{(d) Th H T O} \\ 6 \ 9 \ 5 \ 7 \\ - 5 \ 7 \ 3 \ 4 \\ \hline 1 \ 2 \ 2 \ 3 \\ \text{Smaller Number} \rightarrow 5 \ 7 \ 3 \ 4 \\ \text{Answer} \quad \quad \quad + 1 \ 2 \ 2 \ 3 \\ \hline 6 \ 9 \ 5 \ 7 \end{array}$$

$$\begin{array}{r} \text{(e) Th H T O} \\ 2 \ 5 \ 4 \ 6 \\ - 1 \ 3 \ 1 \ 5 \\ \hline 1 \ 2 \ 3 \ 1 \\ \text{Smaller Number} \rightarrow 1 \ 3 \ 1 \ 5 \\ \text{Answer} \quad \quad \quad + 1 \ 2 \ 3 \ 1 \\ \hline 2 \ 5 \ 4 \ 6 \end{array}$$

$$\begin{array}{r} \text{(f) Th H T O} \\ 3 \ 7 \ 4 \ 6 \\ - 2 \ 5 \ 3 \ 5 \\ \hline 1 \ 2 \ 1 \ 1 \\ \text{Smaller Number} \rightarrow 2 \ 5 \ 3 \ 5 \\ \text{Answer} \quad \quad \quad + 1 \ 2 \ 1 \ 1 \\ \hline 3 \ 7 \ 4 \ 6 \end{array}$$

Exercise Time - 5.2

1. Subtract :

$$\begin{array}{r} \text{(a) Th H T O} \\ \boxed{6} \boxed{12} \\ \cancel{7} \cancel{2} \ 4 \ 4 \\ - 3 \ 5 \ 8 \ 8 \\ \hline \boxed{3 \ 7 \ 4 \ 4} \end{array} \quad \begin{array}{r} \text{(b) Th H T O} \\ \boxed{6} \boxed{11} \boxed{10} \boxed{15} \\ \cancel{7} \cancel{2} \cancel{1} \cancel{5} \\ - 6 \ 6 \ 5 \ 8 \\ \hline \boxed{0 \ 5 \ 5 \ 7} \end{array}$$

$$\begin{array}{r} \text{(c) Th H T O} \\ \boxed{7} \boxed{10} \boxed{13} \boxed{13} \\ \cancel{8} \cancel{1} \cancel{4} \cancel{3} \\ - 5 \ 2 \ 8 \ 5 \\ \hline \boxed{2 \ 8 \ 5 \ 8} \end{array} \quad \begin{array}{r} \text{(d) Th H T O} \\ \boxed{8} \boxed{13} \boxed{12} \boxed{11} \\ \cancel{9} \cancel{4} \cancel{3} \cancel{1} \\ - 5 \ 9 \ 4 \ 5 \\ \hline \boxed{3 \ 4 \ 8 \ 6} \end{array}$$

$$\begin{array}{r} \text{(e) Th H T O} \\ \boxed{6} \boxed{14} \boxed{13} \boxed{16} \\ \cancel{7} \cancel{5} \cancel{4} \cancel{6} \\ - 5 \ 6 \ 7 \ 8 \\ \hline \boxed{1 \ 8 \ 6 \ 8} \end{array} \quad \begin{array}{r} \text{(f) Th H T O} \\ \boxed{6} \boxed{11} \boxed{17} \boxed{15} \\ \cancel{7} \cancel{2} \cancel{8} \cancel{5} \\ - 6 \ 8 \ 9 \ 6 \\ \hline \boxed{0 \ 3 \ 8 \ 9} \end{array}$$

$$\begin{array}{r} \text{(g) Th H T O} \\ \boxed{6} \boxed{12} \boxed{17} \boxed{14} \\ \cancel{7} \cancel{3} \cancel{8} \cancel{4} \\ - 2 \ 5 \ 9 \ 6 \\ \hline \boxed{4 \ 7 \ 8 \ 8} \end{array} \quad \begin{array}{r} \text{(h) Th H T O} \\ \boxed{7} \boxed{11} \boxed{13} \boxed{10} \\ \cancel{8} \cancel{2} \cancel{4} \cancel{0} \\ - 6 \ 5 \ 9 \ 1 \\ \hline \boxed{1 \ 6 \ 4 \ 9} \end{array}$$

$$\begin{array}{r} \text{(i) Th H T O} \\ \boxed{7} \boxed{15} \boxed{10} \boxed{14} \\ \cancel{8} \cancel{6} \cancel{1} \cancel{4} \\ - 5 \ 6 \ 2 \ 8 \\ \hline \boxed{2 \ 9 \ 8 \ 6} \end{array} \quad \begin{array}{r} \text{(j) Th H T O} \\ \boxed{11} \boxed{17} \boxed{15} \\ 5 \ \cancel{9} \cancel{6} \cancel{1} \\ - 4 \ 8 \ 8 \ 7 \\ \hline \boxed{1 \ 0 \ 7 \ 4} \end{array}$$

$$\begin{array}{r} \text{(k) Th H T O} \\ \boxed{5} \boxed{11} \boxed{15} \\ 7 \ \cancel{6} \cancel{2} \cancel{5} \\ - 4 \ 0 \ 8 \ 9 \\ \hline \boxed{3 \ 5 \ 3 \ 6} \end{array} \quad \begin{array}{r} \text{(l) Th H T O} \\ \boxed{6} \boxed{13} \boxed{16} \\ 6 \ \cancel{7} \cancel{4} \cancel{6} \\ - 4 \ 6 \ 5 \ 9 \\ \hline \boxed{2 \ 0 \ 8 \ 7} \end{array}$$

2. Arrange the column and then subtract :

$$\begin{array}{r} \text{(a) Th H T O} \\ \boxed{1} \boxed{12} \boxed{15} \boxed{17} \\ \cancel{2} \cancel{3} \cancel{6} \cancel{7} \\ - 1 \ 4 \ 7 \ 8 \\ \hline \boxed{0 \ 8 \ 8 \ 9} \end{array} \quad \begin{array}{r} \text{(b) Th H T O} \\ \boxed{2} \boxed{9} \boxed{9} \boxed{10} \\ \cancel{3} \cancel{0} \cancel{0} \cancel{0} \\ - 1 \ 5 \ 9 \ 8 \\ \hline \boxed{1 \ 4 \ 0 \ 2} \end{array}$$

$$\begin{array}{r}
 \text{(c) Th H T O} \\
 \boxed{3} \boxed{13} \boxed{13} \boxed{14} \\
 \cancel{4} \cancel{4} \cancel{4} \cancel{4} \\
 - 3 \ 5 \ 6 \ 7 \\
 \hline
 \boxed{0} \boxed{8} \boxed{7} \boxed{7}
 \end{array}$$

$$\begin{array}{r}
 \text{(e) Th H T O} \\
 \boxed{6} \boxed{12} \boxed{13} \boxed{11} \\
 \cancel{7} \cancel{3} \cancel{4} \cancel{1} \\
 - 6 \ 4 \ 5 \ 2 \\
 \hline
 \boxed{0} \boxed{8} \boxed{8} \boxed{9}
 \end{array}$$

3. Find the difference between the given number and check the answer :

$$\begin{array}{r}
 \text{(a) Th H T O} \\
 \boxed{1} \boxed{13} \boxed{14} \boxed{17} \\
 \cancel{2} \cancel{4} \cancel{5} \cancel{7} \\
 - 1 \ 5 \ 6 \ 8 \\
 \hline
 \boxed{0} \boxed{8} \boxed{8} \boxed{9}
 \end{array}$$

Check answer

$$\begin{array}{r}
 1 \ 5 \ 6 \ 8 \\
 + 0 \ 8 \ 8 \ 9 \\
 \hline
 \boxed{2} \boxed{4} \boxed{5} \boxed{7}
 \end{array}$$

$$\begin{array}{r}
 \text{(c) Th H T O} \\
 \boxed{13} \boxed{14} \boxed{18} \\
 8 \cancel{4} \cancel{5} \cancel{5} \\
 - 6 \ 0 \ 8 \ 9 \\
 \hline
 \boxed{2} \boxed{3} \boxed{6} \boxed{9}
 \end{array}$$

Check answer

$$\begin{array}{r}
 6 \ 0 \ 8 \ 9 \\
 + 2 \ 3 \ 6 \ 9 \\
 \hline
 \boxed{8} \boxed{4} \boxed{5} \boxed{8}
 \end{array}$$

$$\begin{array}{r}
 \text{(e) Th H T O} \\
 \boxed{4} \boxed{9} \boxed{9} \boxed{14} \\
 \cancel{5} \cancel{0} \cancel{0} \cancel{4} \\
 - 3 \ 1 \ 4 \ 5 \\
 \hline
 \boxed{1} \boxed{8} \boxed{5} \boxed{9}
 \end{array}$$

Check answer

$$\begin{array}{r}
 3 \ 1 \ 4 \ 5 \\
 + 1 \ 8 \ 5 \ 9 \\
 \hline
 \boxed{5} \boxed{0} \boxed{0} \boxed{4}
 \end{array}$$

$$\begin{array}{r}
 \text{(d) Th H T O} \\
 \boxed{4} \boxed{12} \boxed{18} \boxed{12} \\
 \cancel{5} \cancel{3} \cancel{9} \cancel{2} \\
 - 4 \ 5 \ 9 \ 5 \\
 \hline
 \boxed{0} \boxed{7} \boxed{9} \boxed{7}
 \end{array}$$

$$\begin{array}{r}
 \text{(f) Th H T O} \\
 \boxed{8} \boxed{9} \boxed{17} \boxed{10} \\
 \cancel{9} \cancel{0} \cancel{8} \cancel{0} \\
 - 5 \ 2 \ 9 \ 1 \\
 \hline
 \boxed{3} \boxed{7} \boxed{8} \boxed{9}
 \end{array}$$

$$\begin{array}{r}
 \text{(b) Th H T O} \\
 \boxed{3} \boxed{12} \boxed{12} \boxed{13} \\
 \cancel{4} \cancel{3} \cancel{3} \cancel{3} \\
 - 2 \ 7 \ 4 \ 5 \\
 \hline
 \boxed{1} \boxed{5} \boxed{8} \boxed{8}
 \end{array}$$

Check answer

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

$$\begin{array}{r}
 \text{(d) Th H T O} \\
 \boxed{12} \boxed{14} \boxed{10} \\
 3 \cancel{3} \cancel{5} \cancel{0} \\
 - 2 \ 1 \ 7 \ 8 \\
 \hline
 \boxed{1} \boxed{1} \boxed{7} \boxed{2}
 \end{array}$$

Check answer

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

$$\begin{array}{r}
 \text{(f) Th H T O} \\
 \boxed{4} \boxed{17} \boxed{9} \boxed{10} \\
 \cancel{5} \cancel{8} \cancel{0} \cancel{0} \\
 - 3 \ 9 \ 4 \ 2 \\
 \hline
 \boxed{1} \boxed{8} \boxed{5} \boxed{8}
 \end{array}$$

Check answer

$$\begin{array}{r}
 3 \ 9 \ 4 \ 2 \\
 + 1 \ 8 \ 5 \ 8 \\
 \hline
 \boxed{5} \boxed{8} \boxed{0} \boxed{0}
 \end{array}$$

4. Fill in the blanks :

$$\begin{array}{r}
 \text{(a) } 6 \ 0 \ 0 \ 0 \\
 - 4 \ 5 \ \boxed{8} \boxed{4} \\
 \hline
 \boxed{1} \boxed{4} \boxed{1} \boxed{6}
 \end{array}$$

$$\begin{array}{r}
 \text{(b) } 6 \ 2 \ 1 \ 7 \\
 - \boxed{4} \boxed{3} \boxed{2} \boxed{2} \\
 \hline
 \boxed{1} \boxed{8} \boxed{9} \boxed{5}
 \end{array}$$

Exercise Time - 5.3

1. Number of people in a village = 8760
 Number of educated people = 5890
 Number of not educated people = 2870
 Thus, Number of not educated people = **2870**

$$\begin{array}{r}
 \boxed{7} \boxed{16} \boxed{16} \\
 \cancel{8} \cancel{7} \cancel{6} \cancel{0} \\
 - 5 \ 8 \ 9 \ 0 \\
 \hline
 \boxed{2} \boxed{8} \boxed{7} \boxed{0}
 \end{array}$$

2. Number of cold drink bottles = 8400
 Number of used bottles of cold drink = 7356

$$\begin{array}{r}
 \boxed{3} \boxed{9} \boxed{10} \\
 8 \cancel{4} \cancel{0} \cancel{0} \\
 - 7 \ 3 \ 5 \ 6 \\
 \hline
 \boxed{1} \boxed{0} \boxed{4} \boxed{4}
 \end{array}$$

Thus, number of left cold drink bottle = **1044**

3. Number of student in a school = 2680
 Number of boys = 1595

$$\begin{array}{r}
 \boxed{5} \boxed{7} \boxed{10} \\
 2 \cancel{6} \cancel{8} \cancel{0} \\
 - 1 \ 5 \ 9 \ 5 \\
 \hline
 \boxed{1} \boxed{0} \boxed{8} \boxed{5}
 \end{array}$$

Thus, number of girls in school = 1085

4. Number of tube lights produced on

$$\begin{array}{r}
 \text{Friday} \rightarrow 8 \ 5 \ 3 \ 6 \\
 \text{Saturday} \rightarrow - 7 \ 8 \ 5 \ 7 \\
 \hline
 \boxed{6} \boxed{7} \boxed{9}
 \end{array}$$

Thus, in the comparison of both day

tube-lights produced more on
“Saturday” by tube lights

5. Number of total flood relief fund = ₹ 6500

Silky donated = ₹ 3846

$$\begin{array}{r} \boxed{5} \boxed{14} \boxed{9} \boxed{10} \\ \text{₹ } \cancel{6} \cancel{5} \cancel{0} \cancel{0} \\ - \text{₹ } 3846 \\ \hline \text{₹ } 2654 \end{array}$$

Thus, Sweety donate flood relief fund = ₹ 2654

6. The sum of two numbers = 9805

One number = 5861

$$\begin{array}{r} \boxed{8} \boxed{17} \boxed{10} \\ \cancel{9} \cancel{8} \cancel{0} \cancel{5} \\ - 5861 \\ \hline 3944 \end{array}$$

Thus, other number 3944

- 7.

$$\begin{array}{r} \boxed{2} \boxed{10} \\ 53\cancel{0}\cancel{8} \\ - 2260 \\ \hline 3048 \end{array}$$

Thus, 3048 is subtract from 5308 to get 2260.

- 8.

$$\begin{array}{r} \boxed{3} \boxed{14} \boxed{9} \boxed{10} \\ \cancel{4} \cancel{5} \cancel{0} \cancel{0} \\ - 1596 \\ \hline 2904 \end{array}$$

Thus, 2904 is added 1596 to get 4500.

9. Two number the smaller is less than the greater = 1527

Greater number = 4948

So, the smaller number is

$$\begin{array}{r} 4948 \\ - 1527 \\ \hline 3421 \end{array}$$

Exercise Time - 5.4

Solve the following :

1. Th H T O Th H T O

$$\begin{array}{r} \boxed{2} \boxed{15} \\ \cancel{4} \cancel{5} \cancel{0} \cancel{0} \\ - 600 \\ \hline \boxed{3900} \end{array} \quad \begin{array}{r} \boxed{1} \\ \cancel{9} \cancel{0} \cancel{0} \\ - 1426 \\ \hline \boxed{5326} \end{array}$$

2. Th H T O Th H T O

$$\begin{array}{r} \boxed{1} \boxed{0} \boxed{1} \boxed{} \\ \cancel{5} \cancel{6} \cancel{0} \cancel{7} \\ + 664 \\ \hline \boxed{6271} \end{array} \quad \begin{array}{r} \boxed{1} \boxed{12} \\ \cancel{6} \cancel{2} \cancel{7} \cancel{1} \\ - 1440 \\ \hline \boxed{4831} \end{array}$$

Th H T O

$$\begin{array}{r} \boxed{7} \boxed{12} \boxed{11} \\ 4\cancel{8}\cancel{3}\cancel{4} \\ - 1272 \\ \hline \boxed{3559} \end{array}$$

3. Th H T O Th H T O

$$\begin{array}{r} \boxed{1} \boxed{0} \boxed{1} \boxed{15} \\ \cancel{2} \cancel{6} \cancel{5} \cancel{5} \\ - 886 \\ \hline \boxed{1769} \end{array} \quad \begin{array}{r} \boxed{1} \boxed{1} \boxed{1} \\ 1769 \\ + 756 \\ \hline \boxed{2525} \end{array}$$

Th H T O

$$\begin{array}{r} \boxed{4} \boxed{12} \\ 2\cancel{5}\cancel{2}5 \\ - 2153 \\ \hline \boxed{0372} \end{array}$$

4. Th H T O Th H T O

$$\begin{array}{r} \boxed{1} \boxed{0} \boxed{1} \\ \cancel{4} \cancel{4} \cancel{0} \cancel{5} \\ + 1768 \\ \hline \boxed{6173} \end{array} \quad \begin{array}{r} \boxed{5} \boxed{10} \boxed{6} \boxed{13} \\ \cancel{6} \cancel{1} \cancel{7} \cancel{3} \\ - 1526 \\ \hline \boxed{4547} \end{array}$$

Th H T O

$$\begin{array}{r} 4547 \\ - 248 \\ \hline \boxed{4301} \end{array}$$

5. Th H T O Th H T O

$$\begin{array}{r} \boxed{3} \boxed{14} \boxed{9} \boxed{13} \\ \cancel{4} \cancel{5} \cancel{0} \cancel{3} \\ - 1615 \\ \hline \boxed{2888} \end{array} \quad \begin{array}{r} 2888 \\ + 1450 \\ \hline \boxed{4338} \end{array}$$

$$\begin{array}{r}
 \text{Th H T O} \\
 \boxed{3} \boxed{12} \boxed{13} \\
 \cancel{4} \cancel{3} \cancel{3} \cancel{8} \\
 - 1673 \\
 \hline
 \boxed{2665}
 \end{array}$$

$$\begin{array}{r}
 6. \quad \boxed{1} \\
 6800 \\
 + 736 \\
 \hline
 \boxed{7536}
 \end{array}$$

$$\begin{array}{r}
 \boxed{4} \boxed{13} \\
 11 \cancel{5} \cancel{5} \\
 - 1009 \\
 \hline
 \boxed{44}
 \end{array}$$

$$\begin{array}{r}
 7. \quad \boxed{1} \boxed{1} \\
 3684 \\
 + 1524 \\
 \hline
 \boxed{5208} \\
 \boxed{5} \boxed{10} \\
 113 \cancel{6} \cancel{6} \\
 - 5208 \\
 \hline
 \boxed{6152}
 \end{array}$$

$$\begin{array}{r}
 \boxed{2} \boxed{16} \\
 75 \cancel{3} \cancel{6} \\
 - 6527 \\
 \hline
 \boxed{1009}
 \end{array}$$

$$\begin{array}{r}
 \boxed{1} \\
 5125 \\
 + 6235 \\
 \hline
 \boxed{11360}
 \end{array}$$

8. Number of books in school library = 5000

Number of English books = 1516

Number of Hindi books = 2054

Thus the number of other books =

$$\begin{array}{r}
 \boxed{4} \boxed{9} \boxed{9} \boxed{10} \quad \boxed{0} \boxed{0} \boxed{0} \boxed{0} \\
 \cancel{5} \cancel{0} \cancel{0} \cancel{0} \quad 3484 \\
 + 1516 \quad - 2054 \\
 \hline
 \boxed{3484} \quad \boxed{1430}
 \end{array}$$

9. A train carried passenger

$$\begin{array}{r}
 \boxed{7} \boxed{9} \boxed{9} \boxed{10} \\
 \text{Monday} = \cancel{8} \cancel{0} \cancel{0} \cancel{0} \\
 \text{Tuesday} = - 6566 \\
 \hline
 \boxed{1434}
 \end{array}$$

Thus, on Tuesday less passenger carry = 1434

The total number of passenger carry on two days =

$$\begin{array}{r}
 8000 \\
 + 6566 \\
 \hline
 \boxed{14566}
 \end{array}$$

$$\begin{array}{r}
 10. \quad \boxed{6} \boxed{15} \boxed{12} \boxed{12} \quad \boxed{7} \boxed{9} \boxed{10} \\
 \cancel{7} \cancel{6} \cancel{3} \cancel{2} \quad 38 \cancel{0} \cancel{0} \\
 - 4738 \quad + 534 \\
 \hline
 \boxed{2894} \quad \boxed{3266}
 \end{array}$$

$$\begin{array}{r}
 \text{Thus, } \boxed{2} \boxed{11} \boxed{16} \\
 \cancel{3} \cancel{2} \cancel{6} 6 \\
 - 2894 \\
 \hline
 \boxed{0372}
 \end{array}$$

11. Number of children visited to crystal world on first three days = 7255

On Monday = 1214

On Tuesday = 2605

$$\begin{array}{r}
 7255 \\
 - 1214 \\
 \hline
 6041 \\
 - 2605 \\
 \hline
 \boxed{3436}
 \end{array}$$

Thus, number of children visited on Wednesday = 3436

12. Rachit spent =

₹ 1458 on food

₹ 683 on milk

+ ₹ 1490 on other items

$$\begin{array}{r}
 \boxed{₹} \boxed{3} \boxed{6} \boxed{3} \boxed{1} \\
 \text{If he earned} = ₹ 6000 \\
 \text{He spend} = - ₹ 3631 \\
 \text{He saved} = \boxed{2369}
 \end{array}$$

13. $\boxed{4} \boxed{11} \boxed{1} \boxed{16}$

$$\begin{array}{r}
 \cancel{5} \cancel{1} \cancel{2} \cancel{6} \quad 2432 \\
 - 3817 \quad + 3510 \\
 \hline
 \boxed{1309} \quad \boxed{5942}
 \end{array}$$

$$\begin{array}{r}
 \text{Thus, } \boxed{3} \boxed{12} \\
 59 \cancel{4} \cancel{8} \\
 - 1309 \\
 \hline
 \boxed{4633}
 \end{array}$$

14. The Population of town = 7926

Number of men = 4215

Number of women = 1712

$$\begin{array}{r} 4\ 2\ 1\ 5 \\ +\ 1\ 7\ 1\ 2 \\ \hline 5\ 9\ 2\ 7 \end{array}$$

Thus the number of children =

$$\begin{array}{r} 6\ 18\ 11\ 16 \\ \cancel{7926} \\ -\ 5\ 9\ 2\ 7 \\ \hline 1\ 9\ 9\ 9 \end{array}$$

15. The greatest 4-digit number = 9999

Greatest 3-digit number = 999

Smallest 2-digit number = 10

$$\begin{array}{r} 9\ 9\ 9 \\ +\ 1\ 0 \\ \hline 1\ 0\ 0\ 9 \end{array}$$

Thus, these subtraction = $9999 - 1009$
= 8990

$$\begin{array}{r} 9\ 9\ 9\ 9 \\ -\ 1\ 0\ 0\ 9 \\ \hline 8\ 9\ 9\ 0 \end{array}$$

Chapter-6 (Multiplication)

Exercise Time - 6.1

1. Write what term is the coloured number :

- (a) $5 \times 6 = 30$ Multiplicand
(b) $8 \times 1 = 8$ Product
(c) $2 \times 3 = 6$ Multiplier
(d) $5 \times 3 = 15$ Multiplicand
(e) $4 \times 6 = 24$ Product
(f) $6 \times 7 = 42$ Multiplicand
(g) $8 \times 9 = 72$ Multiplier
(h) $2 \times 5 = 10$ Multiplier

2. With the help of multiplication tables fill in the boxes :

- (a) $2 \times 6 = 12$ (b) $6 \times 6 = 36$
(c) $4 \times 9 = 36$ (d) $7 \times 4 = 28$
(e) $8 \times 6 = 48$ (f) $5 \times 7 = 35$

(g) $9 \times 8 = 72$ (h) $7 \times 7 = 49$

(i) $6 \times 9 = 54$

3. Without multiplying fill in the blanks :

(a) $6 \times 5 = 5 \times 6$ (b) $7 \times 4 = 4 \times 7$

(c) $4 \times 3 = 3 \times 4$ (d) $5 \times 0 = 5$

(e) $8 \times 9 = 9 \times 8$ (f) $6 \times 7 = 7 \times 6$

(g) $3 \times 6 = 6 \times 3$ (h) $6 \times 0 = 6$

(i) $5 \times 0 = 0$ (j) $1 \times 8 = 8 \times 1$

(k) $16 \times 1 = 16$ (l) $0 \times 4 = 0$

4. Fill in the blanks :

(a) $4 \times 12 = 48$ (b) $5 \times 14 = 70$

(c) $6 \times 12 = 72$ (d) $3 \times 19 = 57$

(e) $3 \times 16 = 48$ (f) $5 \times 15 = 75$

(g) $11 \times 9 = 99$ (h) $4 \times 14 = 56$

(i) $7 \times 17 = 119$

Exercise Time - 6.2

1. Multiply the following :

(a) $\begin{array}{r} 1\ 3\ 4 \\ \times 2 \\ \hline 2\ 6\ 8 \end{array}$ (b) $\begin{array}{r} 3\ 1\ 2 \\ \times 3 \\ \hline 9\ 3\ 6 \end{array}$

(c) $\begin{array}{r} 1\ 0\ 4 \\ \times 2 \\ \hline 2\ 0\ 8 \end{array}$ (d) $\begin{array}{r} 1\ 0\ 0 \\ \times 5 \\ \hline 5\ 0\ 0 \end{array}$

(e) $\begin{array}{r} 2\ 2\ 1 \\ \times 3 \\ \hline 6\ 6\ 3 \end{array}$ (f) $\begin{array}{r} 2\ 0\ 2 \\ \times 3 \\ \hline 6\ 0\ 6 \end{array}$

(g) $\begin{array}{r} 1\ 1 \\ 2\ 3\ 5 \\ \times 3 \\ \hline 7\ 0\ 5 \end{array}$ (h) $\begin{array}{r} 2 \\ 6\ 0\ 5 \\ \times 5 \\ \hline 3\ 0\ 2\ 5 \end{array}$

(i) $\begin{array}{r} 1\ 4 \\ 3\ 1\ 8 \\ \times 6 \\ \hline 1\ 9\ 0\ 8 \end{array}$ (j) $\begin{array}{r} 5\ 0 \\ 5\ 0\ 7 \\ \times 8 \\ \hline 4\ 0\ 5\ 6 \end{array}$

(k) $\begin{array}{r} 1 \\ 5\ 2\ 4 \\ \times 3 \\ \hline 1\ 5\ 7\ 2 \end{array}$ (l) $\begin{array}{r} 5\ 5 \\ 2\ 7\ 8 \\ \times 7 \\ \hline 1\ 9\ 4\ 6 \end{array}$

$$\begin{array}{r} \boxed{3} \boxed{5} \\ 536 \\ \times 9 \\ \hline \boxed{4824} \end{array}$$

$$\begin{array}{r} \boxed{1} \\ 430 \\ \times 6 \\ \hline \boxed{2580} \end{array}$$

$$\begin{array}{r} \boxed{1} \boxed{6} \\ 819 \\ \times 7 \\ \hline \boxed{5733} \end{array}$$

$$\begin{array}{r} \boxed{2} \boxed{3} \boxed{4} \\ 2569 \\ \times 5 \\ \hline \boxed{12845} \end{array}$$

2.

$$\begin{array}{r} \boxed{1} \quad \boxed{1} \\ 1536 \\ \times 2 \\ \hline \boxed{3072} \end{array}$$

$$\begin{array}{r} \boxed{1} \boxed{3} \boxed{2} \\ 1339 \\ \times 3 \\ \hline \boxed{4017} \end{array}$$

$$\begin{array}{r} \boxed{3} \\ 2510 \\ \times 7 \\ \hline \boxed{17570} \end{array}$$

$$\begin{array}{r} \boxed{2} \boxed{0} \boxed{1} \boxed{0} \\ 2010 \\ \times 4 \\ \hline \boxed{8040} \end{array}$$

$$\begin{array}{r} \boxed{2} \boxed{3} \boxed{3} \\ 1689 \\ \times 4 \\ \hline \boxed{6756} \end{array}$$

$$\begin{array}{r} \boxed{5} \boxed{3} \boxed{6} \\ 1849 \\ \times 7 \\ \hline \boxed{12943} \end{array}$$

$$\begin{array}{r} \boxed{2} \boxed{1} \boxed{3} \\ 1426 \\ \times 6 \\ \hline \boxed{8556} \end{array}$$

$$\begin{array}{r} \boxed{1} \\ 9205 \\ \times 5 \\ \hline \boxed{18410} \end{array}$$

$$\begin{array}{r} \boxed{2} \boxed{2} \\ 6034 \\ \times 6 \\ \hline \boxed{36204} \end{array}$$

$$\begin{array}{r} \boxed{4} \boxed{5} \boxed{3} \\ 2795 \\ \times 6 \\ \hline \boxed{16770} \end{array}$$

$$\begin{array}{r} \boxed{1} \boxed{3} \boxed{4} \\ 1245 \\ \times 8 \\ \hline \boxed{9960} \end{array}$$

$$\begin{array}{r} \boxed{5} \boxed{3} \boxed{6} \\ 2178 \\ \times 9 \\ \hline \boxed{19602} \end{array}$$

Exercise Time - 6.3

Multiply and write the products in the boxes :

1. $13 \times 50 = 650$

2. $23 \times 60 = 1380$

3. $32 \times 500 = 16000$

4. $56 \times 90 = 5040$

5. $78 \times 100 = 7800$

6. $32 \times 2000 = 64000$

7. $43 \times 10 = 430$

8. $40 \times 50 = 2000$

9. $12 \times 700 = 8400$

10. $15 \times 700 = 10500$

11. $14 \times 400 = 5600$

12. $300 \times 60 = 18000$

13. $500 \times 18 = 9000$

14. $16 \times 30 \times 10 = 16 \times 300 = 4800$

15. $17 \times 30 \times 20 = 17 \times 600 = 10200$

Exercise Time - 6.4

1. Number of books in each shelf = 35

Thus, number of books in 28 such shelves

$$\begin{array}{r} 28 \\ \times 35 \\ \hline 140 \leftarrow 28 \times 5 \\ 84 \times \leftarrow 28 \times 3 \\ \hline 980 \end{array}$$

2. A bus can carry passenger = 56

Thus, number of passenger in 16 such buses carry

$$\begin{array}{r} 56 \\ \times 16 \\ \hline 336 \leftarrow 56 \times 6 \\ 56 \times \leftarrow 56 \times 1 \\ \hline 896 \end{array}$$

3. A classroom needs chairs = 34

Thus, Number of chair in 19 such a classroom needed =

$$\begin{array}{r} 39 \\ \times 19 \\ \hline 306 \leftarrow 34 \times 9 \\ 34 \times \leftarrow 34 \times 1 \\ \hline 646 \end{array}$$

4. A book contains pages = 100

So, number of pages in 7 such a books

$$\begin{array}{r} 100 \\ \times 7 \\ \hline 700 \end{array}$$

5. Number of toffees in a ram bag = 156
So, number of toffees in 40 such a bags

$$\begin{array}{r} 156 \\ \times 40 \\ \hline 000 \leftarrow 156 \times 0 \\ 624 \times \leftarrow 156 \times 4 \\ \hline 6240 \end{array}$$

6. Number of ten rupees notes have a woman = 165

So, She has a money = 165

$$\begin{array}{r} 165 \\ \times 10 \\ \hline 000 \leftarrow 165 \times 0 \\ 165 \times \leftarrow 165 \times 1 \\ \hline 1650 \end{array}$$

7. Iqbal bought a T.V for = 4625

So, the value of 50 such T.V = 4625

Iqbal need money = ₹231250

$$\begin{array}{r} 4625 \\ \times 50 \\ \hline 0000 \leftarrow 4625 \times 0 \\ 23125 \times \leftarrow 4625 \times 5 \\ \hline ₹231250 \end{array}$$

8. Number of plants in a garden = 90

Each plants has leaves = 30

So, number of leave are there in a garden = 2700

$$\begin{array}{r} 90 \\ \times 30 \\ \hline 00 \leftarrow 90 \times 0 \\ 270 \times \leftarrow 90 \times 3 \\ \hline 2700 \end{array}$$

9. Cost of a t-shirt = 365

So, Cost of 70 such t-shirt =

$$\begin{array}{r} 365 \\ \times 70 \\ \hline 000 \leftarrow 365 \times 0 \\ 2555 \times \\ \hline 25550 \end{array}$$

10. Number of mangoes in each plates = 14

Thus, number of mangoes in 8 such a plate = $8 \times 14 = 112$

11. Rohit gave toffees to his 14 friends = 6 each

Thus, he gave all = $14 \times 6 = 84$

12. In a week = 7 days

Thus, number of days in 25 weeks = $25 \times 7 = 175$

13. Number of trees in a row = 14

Thus, number of trees in 9 such row = $14 \times 9 = 126$

Exercise Time - 6.5

Multiply :

1.
$$\begin{array}{r} 58 \\ \times 17 \\ \hline 406 \leftarrow (58 \times 7) \\ 58 \times \leftarrow (58 \times 1) \\ \hline 986 \end{array}$$

2.
$$\begin{array}{r} 83 \\ \times 64 \\ \hline 332 \leftarrow (83 \times 4) \\ 498 \times \leftarrow (83 \times 6) \\ \hline 5312 \end{array}$$

3.
$$\begin{array}{r} 43 \\ \times 38 \\ \hline 344 \leftarrow (43 \times 8) \\ 129 \times \leftarrow (43 \times 8) \\ \hline 1634 \end{array}$$

$$\begin{array}{r}
 4. \quad \begin{array}{r} 77 \\ \times 33 \\ \hline 231 \\ 231 \times \leftarrow (77 \times 3) \\ \hline 2541 \end{array}
 \end{array}$$

$$\begin{array}{r}
 5. \quad \begin{array}{r} 58 \\ \times 34 \\ \hline 232 \\ 174 \times \leftarrow (58 \times 3) \\ \hline 1972 \end{array}
 \end{array}$$

$$\begin{array}{r}
 6. \quad \begin{array}{r} 94 \\ \times 86 \\ \hline 564 \\ 752 \times \leftarrow (94 \times 8) \\ \hline 8084 \end{array}
 \end{array}$$

$$\begin{array}{r}
 7. \quad \begin{array}{r} 524 \\ \times 19 \\ \hline 4716 \\ 524 \times \leftarrow (524 \times 1) \\ \hline 9956 \end{array}
 \end{array}$$

$$\begin{array}{r}
 8. \quad \begin{array}{r} 314 \\ \times 29 \\ \hline 2826 \\ 628 \times \leftarrow (314 \times 2) \\ \hline 8106 \end{array}
 \end{array}$$

$$\begin{array}{r}
 9. \quad \begin{array}{r} 248 \\ \times 21 \\ \hline 248 \\ 496 \leftarrow (248 \times 2) \\ \hline 5208 \end{array}
 \end{array}$$

$$\begin{array}{r}
 10. \quad \begin{array}{r} 249 \\ \times 21 \\ \hline 249 \\ 498 \times \leftarrow (249 \times 2) \\ \hline 5229 \end{array}
 \end{array}$$

$$\begin{array}{r}
 11. \quad \begin{array}{r} 556 \\ \times 12 \\ \hline 1112 \\ 556 \times \leftarrow (556 \times 1) \\ \hline 6672 \end{array}
 \end{array}$$

$$\begin{array}{r}
 12. \quad \begin{array}{r} 163 \\ \times 43 \\ \hline 489 \\ 652 \times \leftarrow (163 \times 4) \\ \hline 7009 \end{array}
 \end{array}$$

$$\begin{array}{r}
 13. \quad \begin{array}{r} 273 \\ \times 37 \\ \hline 1911 \\ 819 \times \leftarrow (273 \times 3) \\ \hline 10101 \end{array}
 \end{array}$$

$$\begin{array}{r}
 14. \quad \begin{array}{r} 226 \\ \times 38 \\ \hline 1808 \\ 678 \times \leftarrow (226 \times 3) \\ \hline 8588 \end{array}
 \end{array}$$

$$\begin{array}{r}
 15. \quad \begin{array}{r} 414 \\ \times 24 \\ \hline 1656 \\ 828 \times \leftarrow (414 \times 2) \\ \hline 9936 \end{array}
 \end{array}$$

16. Number of books on a table = 26
So, Number of books on 82 such tables

$$\begin{array}{r}
 \begin{array}{r} 26 \\ \times 82 \\ \hline 52 \\ 208 \times \leftarrow (26 \times 8) \\ \hline 2132 \end{array}
 \end{array}$$

$$\begin{array}{r}
 17. \quad \begin{array}{r} 84 \text{ (rupees)} \\ \times 57 \text{ (seats)} \\ \hline 588 \\ 420 \times \leftarrow (84 \times 5) \\ \hline 4788 \end{array}
 \end{array}$$

18. Number of biscuits in a packet = 76

So, Number of biscuits in 31 Such packets =

$$\begin{array}{r} 76 \\ \times 31 \\ \hline 76 \leftarrow (76 \times 1) \\ 228 \times \leftarrow (76 \times 3) \\ \hline 2356 \end{array}$$

19. Number of passenger in a plane carry = 238

So, number of passenger in such 24 Planes

$$\begin{array}{r} 238 \\ \times 24 \\ \hline 952 \leftarrow (238 \times 4) \\ 476 \times \leftarrow (238 \times 2) \\ \hline 5712 \end{array}$$

20. Cost of a shirt = 200

So, cost of 37 such shirts

$$\begin{array}{r} 200 \\ \times 37 \\ \hline 1400 \leftarrow (200 \times 7) \\ 600 \leftarrow (200 \times 3) \\ \hline 7000 \end{array}$$

21. A doctor earns in a day = 547

So, he earn 24 days =

$$\begin{array}{r} 547 \\ \times 24 \\ \hline 2188 \leftarrow (547 \times 4) \\ 1094 \times \leftarrow (547 \times 2) \\ \hline 13128 \end{array}$$

22. A bag of wheat weigh = 94 kg

63 such bags of weight =

$$\begin{array}{r} 94 \\ \times 63 \\ \hline 282 \leftarrow (94 \times 3) \\ 564 \times \leftarrow (94 \times 6) \\ \hline 5922 \end{array}$$

Exercise Time - 7.1

1. Fill in the blanks :

$$(a) \begin{array}{r} 3 \overline{) 0} \end{array} \quad (b) \begin{array}{r} 1 \overline{) 5} \end{array}$$

$$(c) \begin{array}{r} 2 \overline{) 2} \end{array} \quad (d) \begin{array}{r} 42 \overline{) 0} \end{array}$$

$$(e) \begin{array}{r} 1 \overline{) 43} \end{array} \quad (f) \begin{array}{r} 16 \overline{) 16} \end{array}$$

$$(i) \begin{array}{r} 503 \overline{) 0} \end{array}$$

$$(j) \begin{array}{r} 538 \overline{) 538} \end{array}$$

$$(k) \begin{array}{r} 1 \overline{) 349} \end{array}$$

$$(l) \begin{array}{r} 0 \overline{) 754} \end{array}$$

Exercise Time - 7.2

1. Divide the following and find the quotient :

$$(a) \begin{array}{r} 3 \overline{) 15} \end{array} \quad (b) \begin{array}{r} 2 \overline{) 20} \end{array}$$

Quotient = 5 Quotient = 10

$$(g) \begin{array}{r} 4 \overline{) 448} \text{ (112)} \\ \underline{-4} \downarrow \\ 4 \downarrow \\ \underline{-4} \downarrow \\ 8 \\ \underline{-8} \\ \times \end{array}$$

Quotient = 112

$$(k) \begin{array}{r} 6 \overline{) 1050} \text{ (175)} \\ \underline{-6} \downarrow \downarrow \\ 45 \downarrow \\ \underline{-42} \downarrow \\ 30 \\ \underline{-30} \\ \times \end{array}$$

Quotient = 175

$$(h) \begin{array}{r} 8 \overline{) 936} \text{ (115.75)} \\ \underline{-8} \downarrow \downarrow \\ 13 \downarrow \\ \underline{-8} \downarrow \\ 46 \\ \underline{-40} \\ 60 \\ \underline{-56} \\ 40 \\ \underline{-40} \\ \times \end{array}$$

Quotient = 115.75

$$(l) \begin{array}{r} 6 \overline{) 744} \text{ (124)} \\ \underline{-6} \downarrow \downarrow \\ 14 \downarrow \\ \underline{-12} \downarrow \\ 24 \\ \underline{-24} \\ \times \end{array}$$

Quotient = 124

$$(i) \begin{array}{r} 6 \overline{) 948} \text{ (158)} \\ \underline{-6} \downarrow \downarrow \\ 34 \downarrow \\ \underline{-30} \downarrow \\ 48 \\ \underline{-48} \\ \times \end{array}$$

Quotient = 158

$$(m) \begin{array}{r} 7 \overline{) 9324} \text{ (1332)} \\ \underline{-7} \downarrow \downarrow \downarrow \\ 23 \downarrow \downarrow \\ \underline{-21} \downarrow \downarrow \\ 22 \downarrow \\ \underline{-21} \downarrow \\ 14 \\ \underline{-14} \\ \times \end{array}$$

Quotient = 1332

$$(j) \begin{array}{r} 7 \overline{) 973} \text{ (139)} \\ \underline{-7} \downarrow \downarrow \\ 27 \downarrow \\ \underline{-21} \downarrow \\ 63 \\ \underline{-63} \\ \times \end{array}$$

Quotient = 139

$$(n) \begin{array}{r} 8 \overline{) 9432} \text{ (1179)} \\ \underline{-8} \downarrow \downarrow \downarrow \\ 14 \downarrow \downarrow \\ \underline{-8} \downarrow \downarrow \\ 63 \downarrow \\ \underline{-56} \downarrow \\ 72 \\ \underline{-72} \\ \times \end{array}$$

Quotient = 1179

$$\begin{array}{r}
 \text{(o)} \quad 9 \overline{) 9153} \left(117 \right. \\
 \underline{-9 \downarrow \downarrow} \\
 15 \downarrow \\
 \underline{-9} \\
 63 \downarrow \\
 \underline{-63} \\
 0 \\
 \text{Quotient} = 117
 \end{array}$$

$$\begin{array}{r}
 \text{(t)} \quad 7 \overline{) 2333} \left(319 \right. \\
 \underline{-21 \downarrow \downarrow} \\
 013 \downarrow \\
 \underline{-7} \\
 63 \downarrow \\
 \underline{-63} \\
 0 \\
 \text{Quotient} = 319
 \end{array}$$

$$\begin{array}{r}
 \text{(p)} \quad 7 \overline{) 5439} \left(777 \right. \\
 \underline{-49 \downarrow \downarrow} \\
 053 \downarrow \\
 \underline{-49} \\
 049 \downarrow \\
 \underline{-49} \\
 0 \\
 \text{Quotient} = 777
 \end{array}$$

$$\begin{array}{r}
 \text{(u)} \quad 8 \overline{) 5784} \left(723 \right. \\
 \underline{-56 \downarrow \downarrow} \\
 018 \downarrow \\
 \underline{-16} \\
 24 \downarrow \\
 \underline{-24} \\
 0 \\
 \text{Quotient} = 723
 \end{array}$$

$$\begin{array}{r}
 \text{(q)} \quad 5 \overline{) 2145} \left(429 \right. \\
 \underline{-20 \downarrow \downarrow} \\
 14 \downarrow \\
 \underline{-10} \\
 045 \downarrow \\
 \underline{-45} \\
 \times \\
 \text{Quotient} = 429
 \end{array}$$

2. Number of hostel rooms in the hostel = 6

Number of student in hostel = 246
So, Number of student in each room

$$\begin{array}{r}
 6 \overline{) 246} \left(41 \right. \\
 \underline{-24 \downarrow \downarrow} \\
 006 \downarrow \\
 \underline{-6} \\
 0 \\
 \text{Quotient} = 41
 \end{array}$$

$$\begin{array}{r}
 \text{(r)} \quad 4 \overline{) 3028} \left(757 \right. \\
 \underline{-28 \downarrow \downarrow} \\
 022 \downarrow \\
 \underline{-20} \\
 028 \downarrow \\
 \underline{-28} \\
 0 \\
 \text{Quotient} = 757
 \end{array}$$

3. Number of eggs in a week which poultry

Produced = 2226

Number of eggs in each day =

$$\begin{array}{r}
 7 \overline{) 2226} \left(318 \right. \\
 \underline{-21 \downarrow \downarrow} \\
 012 \downarrow \\
 \underline{-7} \\
 56 \downarrow \\
 \underline{-56} \\
 0 \\
 \text{Quotient} = 318
 \end{array}$$

$$\begin{array}{r}
 \text{(s)} \quad 6 \overline{) 1374} \left(229 \right. \\
 \underline{-12 \downarrow \downarrow} \\
 017 \downarrow \\
 \underline{-12} \\
 054 \downarrow \\
 \underline{-54} \\
 0 \\
 \text{Quotient} = 229
 \end{array}$$

4. Length of a flag = 6m long

So, Number of flag to covered distance of 1056 m

$$\begin{array}{r} 6 \overline{) 1056} \quad (176 \\ \underline{-6} \\ 45 \\ \underline{-42} \\ 036 \\ \underline{-36} \\ 0 \end{array} \quad \text{Quotient} = 176$$

5. Products of two numbers is = 1245
One of them is = 5 So, the other is,

$$\begin{array}{r} 5 \overline{) 1245} \quad (249 \\ - 10 \downarrow \\ \hline 024 \downarrow \\ - 20 \downarrow \\ \hline 045 \\ - 45 \\ \hline 0 \end{array} \quad \text{Quotient} = 249$$

- 6. Number of soldiers were arranged in 4 equal, Groups = 3028**
So, number of soldiers in each group
757 soldier in each group

$$\begin{array}{r} 4 \overline{) 3028} \quad (754 \\ - 28 \downarrow \\ \hline 22 \downarrow \\ - 20 \downarrow \\ \hline 028 \\ - 28 \\ \hline 0 \end{array}$$

7. Radhika bought mangoes = 2220
Number of basket, she packed equally
mangoes = 5
So, Number of mangoes in each basket
444 mangoes in each basket.

$$\begin{array}{r} 5 \overline{) 2220} \quad (444 \\ - 20 \downarrow \downarrow \\ \hline 022 \downarrow \\ - 20 \downarrow \\ \hline 020 \\ - 20 \\ \hline 0 \end{array}$$

8. Number of rows in a benches of class = 8

Total number of benches are = 912
So, Number of benches in each row.

$$\begin{array}{r} 8 \overline{) 912} \quad (114 \\ - 8 \downarrow | \\ \hline 11 \quad | \\ - 8 \downarrow \\ \hline 32 \\ - 32 \\ \hline \times \end{array}$$

- 9. Total donation for the flood relief fund from 6 students = 1536**
So, collection made from each student.

$$\begin{array}{r} 6 \overline{) 1536} \quad (256 \\ - 12 \downarrow \downarrow \\ \hline 033 \downarrow \\ - 30 \downarrow \\ \hline 036 \\ - 36 \\ \hline 0 \end{array}$$

Exercise Time - 7.3

- 1. Divide the following and check the answer :**

- (a) Verification/check the answer,
 $\text{Divisor} \times \text{quotient} + \text{remainder} = \text{dividend}$

$$4 \times 102 + 1 = 408 + 1 = 409$$

$$\begin{array}{r} 4 \overline{) 409} \quad (102 \rightarrow Q \\ - 4 \downarrow \downarrow \\ \hline 009 \\ - 8 \\ \hline 1 \rightarrow R \end{array}$$

Hence, the answer is correct.

- (b) Check the answer
 Divisor $\times$ quotient + remainder =
 Dividend
 $5 \times 66 + 1 = 330 + 1 = 331$

$$\begin{array}{r}
 5 \overline{) 331} \begin{array}{l} 66 \rightarrow Q \\ - 30 \downarrow \\ \hline 31 \\ - 30 \\ \hline 01 \end{array} \rightarrow R
 \end{array}$$

Hence, the answer is correct.

(c) Check the answer

Divisor $\times$ quotient + remainder =
Dividend

$$4 \times 61 + 1 = 244 + 1 = 245$$

$$\begin{array}{r}
 4 \overline{) 245} \begin{array}{l} 61 \rightarrow Q \\ - 24 \downarrow \\ \hline 05 \\ - 4 \\ \hline 1 \end{array} \rightarrow R
 \end{array}$$

Hence, the answer is correct

(d) Check the answer

Divisor $\times$ quotient + remainder =
Dividend

$$9 \times 116 + 1 = 9144 + 1 = 9145$$

$$\begin{array}{r}
 9 \overline{) 9145} \begin{array}{l} 1016 \rightarrow Q \\ - 9 \downarrow \downarrow \downarrow \\ \hline 014 \\ - 9 \downarrow \\ \hline 55 \\ - 54 \\ \hline 01 \end{array} \rightarrow R
 \end{array}$$

Hence, the answer is correct

(e) Divisor $\times$ quotient + remainder =
Dividend

$$6 \times 226 + 2 = 1356 + 2 = 1358$$

$$\begin{array}{r}
 6 \overline{) 1358} \begin{array}{l} 226 \rightarrow Q \\ - 12 \downarrow \downarrow \\ \hline 015 \\ - 12 \downarrow \\ \hline 38 \\ - 36 \\ \hline 2 \end{array} \rightarrow R
 \end{array}$$

Hence, the answer is correct

(f) Divisor $\times$ quotient + remainder =
Dividend
 $7 \times 774 + 1$
 $= 5418 + 1 = 5419$

$$\begin{array}{r}
 7 \overline{) 5419} \begin{array}{l} 774 \rightarrow Q \\ - 49 \downarrow \downarrow \downarrow \\ \hline 051 \\ - 49 \downarrow \\ \hline 029 \\ - 28 \\ \hline 01 \end{array} \rightarrow R
 \end{array}$$

Hence, the answer is correct

2. Find the quotient and remainder and check your answer :

Verification checking :

(a) Divisor $\times$ Q + R = Dividend

$$\begin{array}{l}
 6 \times 108 + 2 \\
 = 648 + 2 = 650
 \end{array}$$

$$\begin{array}{r}
 6 \overline{) 650} \begin{array}{l} 108 \\ - 6 \downarrow \downarrow \downarrow \\ \hline 050 \\ - 48 \\ \hline 02 \end{array}
 \end{array}$$

Hence, the answer is correct

Quotient = 108,

Remainder = 2

(b) Divisor $\times$ Q + R = Dividend

$$3 \times 181 + 0 = 543$$

$$\begin{array}{r}
 3 \overline{) 543} \begin{array}{l} 181 \\ - 3 \downarrow \downarrow \downarrow \\ \hline 24 \\ - 24 \downarrow \\ \hline 3 \\ - 3 \\ \hline 0 \end{array}
 \end{array}$$

Hence, the answer is correct

(c) Divisor $\times$ Q + R = Dividend

$$\begin{array}{l}
 5 \times 157 + 4 \\
 = 785 + 4 = 789
 \end{array}$$

$$\begin{array}{r}
 5 \overline{) 789} \quad (157 \\
 \underline{-5 \downarrow} \\
 28 \\
 \underline{-25 \downarrow} \\
 039 \\
 \underline{-35 \downarrow} \\
 4
 \end{array}$$

Hence, the answer is correct

Quotient = 157, Remainder = 4

- (d) Divisor $\times$ Q + R = Dividend

$$2 \times 253 + 1$$

$$506 + 1 = 507$$

$$\begin{array}{r}
 2 \overline{) 507} \quad (253 \\
 \underline{-4 \downarrow} \\
 10 \\
 \underline{-10 \downarrow} \\
 007 \\
 \underline{-6 \downarrow} \\
 1
 \end{array}$$

Hence, the answer is correct

Quotient = 253, Remainder = 1

- (e) Divisor $\times$ Q + R = Dividend

$$8 \times 722 + 1 = 5777$$

Hence, the answer is correct

$$Q = 722, R = 1$$

- (f) Divisor $\times$ Q + R = Dividend

$$7 \times 700 + 1$$

$$4900 + 1 = 4901$$

$$\begin{array}{r}
 7 \overline{) 4901} \quad (700 \\
 \underline{-49 \downarrow} \\
 00 \\
 \underline{-0 \downarrow} \\
 1
 \end{array}$$

Hence, the answer is correct

Quotient (Q) = 70

Remainder(R) = 1

- (g) Divisor $\times$ Q + R = Dividend

$$3 \times 2272 + 7$$

$$= 6816 + 1$$

$$= 6817$$

$$\begin{array}{r}
 3 \overline{) 6817} \quad (227 \\
 \underline{-6 \downarrow} \\
 08 \\
 \underline{-6 \downarrow} \\
 21 \\
 \underline{-21 \downarrow} \\
 007 \\
 \underline{-6 \downarrow} \\
 1
 \end{array}$$

Hence, the answer is correct

Quotient = 227

Remainder = 7

- (h) Divisor $\times$ Q + R = Dividend

$$5 \times 866 + 4$$

$$4330 + 4 = 4334$$

$$\begin{array}{r}
 5 \overline{) 4334} \quad (866 \\
 \underline{-40 \downarrow} \\
 33 \\
 \underline{-30 \downarrow} \\
 34 \\
 \underline{-30 \downarrow} \\
 04
 \end{array}$$

Hence, the answer is correct

Quotient = 866

Remainder = 4

- (i) Divisor $\times$ Q + R = Dividend

$$5 \times 436 + 1$$

$$2315 + 1 = 2316$$

$$\begin{array}{r}
 5 \overline{) 2316} \quad (463 \\
 \underline{-20 \downarrow} \\
 031 \\
 \underline{-30 \downarrow} \\
 016 \\
 \underline{-15 \downarrow} \\
 01
 \end{array}$$

Hence, the answer is correct

Quotient = 463, Remainder = 1

3. Write the quotient and the remainder of the following without actual division :

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

Quotient = 21 Quotient = 2
Remainder = 0 Remainder = 6

$$\begin{array}{r} \text{(c) } 10 \overline{) 70} \text{ (7)} \\ \underline{-70} \\ 0 \end{array}$$

Quotient = 7 Quotient = 50
Remainder = 0 Remainder = 7

$$\begin{array}{r} \text{(e) } 10 \overline{) 633} \text{ (63)} \\ \underline{-60 \downarrow} \\ 033 \\ \underline{-30} \\ 03 \end{array}$$

Quotient = 63 Quotient = 74
Remainder = 3 Remainder = 5

Exercise Time - 7.4

1. Cost of 7 pair shoes = 9317

$$\begin{array}{r} 7 \overline{) 9317} \text{ (1331)} \\ \underline{-7 \downarrow} \\ 23 \\ \underline{-21 \downarrow} \\ 21 \\ \underline{-21 \downarrow} \\ 07 \\ \underline{-7} \\ 0 \end{array}$$

So, cost of one pair shoes = 1331

2. No. of Plants in 5 rows of a garden = 560

$$\begin{array}{r} 5 \overline{) 560} \text{ (112)} \\ \underline{-5 \downarrow} \\ 06 \\ \underline{-5 \downarrow} \\ 10 \\ \underline{-10} \\ 00 \end{array}$$

So, number of each row of plants = 112

3. Number of plane pages in 6 notebooks = 1062

$$\begin{array}{r} 6 \overline{) 1062} \text{ (177)} \\ \underline{-6 \downarrow \downarrow} \\ 46 \\ \underline{-42 \downarrow} \\ 42 \\ \underline{-42} \\ 0 \end{array}$$

So, Number of plane pages in each notebooks = 177

4. Number of toys which each bag can hold = 6

$$\begin{array}{r} 6 \overline{) 1536} \text{ (256)} \\ \underline{-12 \downarrow} \\ 033 \\ \underline{-30 \downarrow} \\ 036 \\ \underline{-36} \\ 0 \end{array}$$

So, Number of bags that required to pack 1536

Toys = 256

5. The product of two number = 1365

One of them = 5

$$\begin{array}{r} 5 \overline{) 1365} \text{ (273)} \\ \underline{-10 \downarrow} \\ 036 \\ \underline{-35 \downarrow} \\ 015 \\ \underline{-15} \\ 0 \end{array}$$

So, other = 273

6. Amit picked flowers = 278

In each vase he put flowers = 10

So, the number of vase he use and number of left flowers =

$$\begin{array}{r}
 10 \overline{) 278} \quad (27 \\
 \underline{- 20} \downarrow \\
 078 \\
 \underline{- 70} \\
 08
 \end{array}$$

Vase use = 27

Left flower = 8

7. In 10 days a cow gives milk = 1380 lt.

So, one day cow give milk,

One day cow give milk = 138

$$\begin{array}{r}
 10 \overline{) 1380} \quad (138 \\
 \underline{- 10} \downarrow \\
 038 \\
 \underline{- 30} \downarrow \\
 080 \\
 \underline{- 80} \\
 0
 \end{array}$$

8. Among 5 men Mohit distributed = 875

So, each men get = 175

$$\begin{array}{r}
 5 \overline{) 875} \quad (175 \\
 \underline{- 5} \downarrow \\
 37 \\
 \underline{- 35} \downarrow \\
 025 \\
 \underline{- 25} \\
 0
 \end{array}$$

Chapter-8 (Fractional numbers)

Exercise Time - 8.1

1. What portion of each of the following figures are shaded and unshaded?

(a) Shaded portion = $\left[\frac{3}{4} \right]$

Unshaded portion = $\left[\frac{1}{4} \right]$

(b) Shaded portion = $\left[\frac{1}{4} \right]$

Unshaded portion = $\left[\frac{3}{4} \right]$

(c) Shaded portion = $\left[\frac{2}{4} \right]$

Unshaded portion = $\left[\frac{2}{4} \right]$

(d) Shaded portion = $\left[\frac{2}{6} \right]$

Unshaded portion = $\left[\frac{2}{6} \right]$

2. Write the following fractions in words :

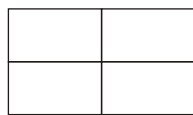
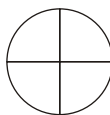
(a) $\frac{2}{7}$ = two-seventh

(b) $\frac{4}{6}$ = four-sixth

(c) $\frac{3}{8}$ = three-eighth

(d) $\frac{6}{10}$ = six-tenth

3. Draw lines to divide each of the following collection into $\frac{1}{4}$:



4. Write the following fraction in numbers :

(a) One by five $\left[\frac{1}{5} \right]$

(b) Two over eight $\left[\frac{2}{8} \right]$

(c) Twelve over ten $\left[\frac{12}{10} \right]$

(d) Three over seven $\left[\frac{3}{7} \right]$

5. Answer the following questions :

(a) 4 one-fourths are there in a whole.

(b) 3 one-thirds are there in a whole.

6. Write the numerator of each of the following fractions :

$$(a) \frac{2}{8} \quad \text{Numerator} = 2$$

$$(b) \frac{5}{18} \quad \text{Numerator} = 5$$

$$(c) \frac{6}{14} \quad \text{Numerator} = 6$$

$$(d) \frac{3}{15} \quad \text{Numerator} = 3$$

$$(e) \frac{7}{25} \quad \text{Numerator} = 7$$

$$(f) \frac{4}{28} \quad \text{Numerator} = 4$$

7. Write the denominator of each of the following fractions :

$$(a) \frac{5}{14} = \text{denominator} = 14$$

$$(b) \frac{4}{19} = \text{denominator} = 19$$

$$(c) \frac{6}{14} = \text{denominator} = 14$$

$$(d) \frac{3}{15} = \text{denominator} = 15$$

$$(e) \frac{7}{25} = \text{denominator} = 25$$

$$(f) \frac{4}{28} = \text{denominator} = 28$$

8. Make fractions with the given numerators and denominators :

	Numerators	Denominators	Fractions
(a)	4	2	$\frac{4}{2}$
(b)	5	12	$\frac{5}{12}$
(c)	14	23	$\frac{14}{23}$
(d)	18	35	$\frac{18}{35}$

Exercise Time - 8.2

1. Write the next three equivalent fractions of the following :

$$(a) \frac{1}{3}, \frac{2}{6}, \frac{3}{9} = \frac{1 \times 4}{3 \times 4}, \frac{1 \times 5}{3 \times 5}, \frac{1 \times 6}{3 \times 6}$$

$$= \frac{4}{12}, \frac{5}{15}, \frac{6}{18}$$

$$(b) \frac{2}{15}, \frac{4}{30}, \frac{6}{45} = \frac{2 \times 4}{15 \times 4}, \frac{2 \times 5}{15 \times 5}, \frac{2 \times 6}{15 \times 6}$$

$$= \frac{8}{60}, \frac{10}{75}, \frac{12}{90}$$

$$(c) \frac{3}{10}, \frac{6}{20}, \frac{9}{30} = \frac{3 \times 4}{10 \times 4}, \frac{3 \times 5}{10 \times 5}, \frac{3 \times 6}{10 \times 6}$$

$$= \frac{12}{40}, \frac{15}{50}, \frac{18}{60}$$

$$(d) \frac{4}{7}, \frac{8}{14}, \frac{12}{21} = \frac{4 \times 4}{7 \times 4}, \frac{4 \times 5}{7 \times 5}, \frac{4 \times 6}{7 \times 6}$$

$$= \frac{16}{28}, \frac{20}{35}, \frac{24}{42}$$

2. Fill in the boxes :

$$(a) \frac{2}{7} = \frac{6}{21} \left(\because \frac{2}{7} = \frac{2 \times 3}{7 \times 3} = \frac{6}{21} \right)$$

$$(b) \frac{5}{8} = \frac{15}{24} \left(\because \frac{5}{8} = \frac{5 \times 3}{8 \times 3} \right)$$

$$(c) \frac{3}{12} = \frac{9}{36} \left(\because \frac{3}{12} = \frac{3 \times 3}{12 \times 3} \right)$$

$$(d) \frac{3}{10} = \frac{9}{30} \left(\because \frac{3}{10} = \frac{3 \times 3}{10 \times 3} \right)$$

$$(e) \frac{3}{5} = \frac{15}{25} \left(\because \frac{3}{5} = \frac{3 \times 5}{5 \times 5} \right)$$

$$(f) \frac{1}{2} = \frac{6}{12} \left(\because \frac{1}{2} = \frac{1 \times 6}{2 \times 6} \right)$$

3. Fill in the boxes :

$$(a) \frac{16}{12} = \frac{4}{3} \left(\because \frac{16}{12} = \frac{4 \times 4}{3 \times 4} \right)$$

$$(b) \frac{28}{32} = \frac{7}{8} \left(\because \frac{28}{32} = \frac{7 \times 4}{8 \times 4} \right)$$

$$(c) \frac{36}{48} = \frac{6}{8} \left(\because \frac{36}{48} = \frac{6 \times 6}{8 \times 6} \right)$$

$$(d) \frac{55}{45} = \frac{11}{9} \left(\because \frac{55}{45} = \frac{11 \times 5}{9 \times 5} \right)$$

$$(e) \frac{6}{24} = \frac{1}{4} \left(\because \frac{27}{18} = \frac{3 \times 9}{2 \times 9} \right)$$

$$(f) \frac{27}{18} = \frac{[3]}{2} \left(\because \frac{27}{18} = \frac{3 \times 9}{2 \times 9} \right)$$

4. Write T for True and F for False statements.

(a) $\frac{6}{20}$ and $\frac{8}{25}$ are equivalent fractions.

$$\frac{6}{20} = \frac{2 \times 4}{5 \times 4} = \frac{8}{20}$$

$\therefore \frac{6}{20}$ and $\frac{8}{25}$ is not equivalent

fraction

False

(b) $\frac{5}{15}$ and $\frac{15}{45}$ are equivalent fraction.

$$\left(\because \frac{5}{15} = \frac{5 \times 3}{15 \times 3} = \frac{15}{45} \right) \text{ **False**}$$

(c) $\frac{8}{12}$ and $\frac{14}{21}$ are equivalent fractions.

$$\left(\because \frac{8}{12} = \frac{2 \times 7}{3 \times 4} \text{ is not equivalent} \right)$$

False

Exercise Time - 8.3

1. Put > or < symbol in between each pair of fractions :

(a) $\frac{2}{6} > \frac{2}{8}$

$$\begin{array}{r} 6 \overline{) 20} \text{ (.6} \\ - 18 \\ \hline 02 \end{array}$$

$$\begin{array}{r} 8 \overline{) 20} \text{ (.2} \\ - 16 \\ \hline 04 \end{array}$$

(b) $\frac{2}{5} < \frac{3}{5}$

$$\begin{array}{r} 5 \overline{) 20} \text{ (.4} \\ - 20 \\ \hline 0 \end{array}$$

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

(c) $\frac{3}{6} < \frac{5}{6}$

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

$$\begin{array}{r} 6 \overline{) 50} \text{ (.83} \\ - 48 \\ \hline 20 \\ - 18 \\ \hline 02 \end{array}$$

(d) $\frac{4}{10} > \frac{2}{10}$

$$\begin{array}{r} 10 \overline{) 40} \text{ (.4} \\ - 40 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 10 \overline{) 20} \text{ (.2} \\ - 20 \\ \hline 0 \end{array}$$

(e) $\frac{6}{14} > \frac{6}{16}$

$$\begin{array}{r} 14 \overline{) 60} \text{ (.4} \\ - 56 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 16 \overline{) 60} \text{ (.3} \\ - 48 \\ \hline 12 \end{array}$$

(f) $\frac{5}{9} < \frac{6}{9}$

$$\begin{array}{r} 9 \overline{) 50} \text{ (.5} \\ - 45 \\ \hline 05 \end{array}$$

$$\begin{array}{r} 9 \overline{) 60} \text{ (.6} \\ - 54 \\ \hline 06 \end{array}$$

(g) $\frac{14}{18} > \frac{14}{25}$

$$\begin{array}{r} 18 \overline{) 140} \text{ (.7} \\ - 126 \\ \hline 14 \end{array}$$

$$\begin{array}{r} 25 \overline{) 140} \text{ (.5} \\ - 125 \\ \hline 15 \end{array}$$

(h) $\frac{2}{5} > \frac{2}{10}$

$$\begin{array}{r} 5 \overline{) 20} \text{ (.4} \\ - 20 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 10 \overline{) 20} \text{ (.2} \\ - 20 \\ \hline 0 \end{array}$$

2. Encircle the smallest fraction in each group :

(a) $\frac{1}{6}, \frac{3}{6}, \frac{2}{6}$

Thus, the smallest is $\frac{1}{6}$.

$$\begin{array}{r} 6 \overline{) 10} \text{ (.1} \\ - 6 \\ \hline 4 \end{array}$$

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

$$\begin{array}{r} 6 \overline{) 20} \text{ (.3} \\ - 18 \\ \hline 02 \end{array}$$

(b) $\frac{3}{8}, \frac{3}{10}, \frac{3}{7}$

Hence, the smallest number is $\frac{3}{10}$.

$$\begin{array}{r} 8 \overline{)30} \text{ (.3)} \quad 10 \overline{)30} \text{ (.3)} \quad 7 \overline{)30} \text{ (.4)} \\ \underline{-24} \quad \underline{-30} \quad \underline{-28} \\ 6 \quad 0 \quad 2 \end{array}$$

(c) $\frac{4}{9}, \frac{4}{12}, \frac{4}{6}$

Hence, the smallest number is $\frac{4}{12}$.

$$\begin{array}{r} 9 \overline{)40} \text{ (.4)} \quad 12 \overline{)40} \text{ (.3)} \quad 6 \overline{)40} \text{ (.6)} \\ \underline{-36} \quad \underline{-36} \quad \underline{-36} \\ 04 \quad 04 \quad 04 \end{array}$$

(d) $\frac{7}{5}, \frac{4}{5}, \frac{3}{5}$

(∵ If the fractions is the same denominator then fraction which has the smallest numerator is smaller than the other. Hence, the smallest no. $\frac{3}{5}$)

3. Encircle the greatest fraction in each groups :

(a) $\frac{1}{8}, \frac{7}{8}, \frac{5}{8}$

$$\begin{array}{r} 8 \overline{)10} \text{ (.1)} \quad 8 \overline{)70} \text{ (.8)} \quad 8 \overline{)50} \text{ (.6)} \\ \underline{-8} \quad \underline{-64} \quad \underline{-48} \\ 2 \quad 06 \quad 02 \end{array}$$

(If two fraction is same denominator then the fraction which has the greater numerator is greatest than the other)

Hence, the greatest fraction $\frac{7}{8}$

(b) $\frac{2}{6}, \frac{3}{6}, \frac{5}{6}$

$$\begin{array}{r} 6 \overline{)20} \text{ (.3)} \quad 6 \overline{)30} \text{ (.5)} \quad 6 \overline{)50} \text{ (.8)} \\ \underline{-18} \quad \underline{-30} \quad \underline{-48} \\ 02 \quad 0 \quad 0 \end{array}$$

(If two or more fraction is same denominator then the fraction which has the greatest nominator is greatest factor)

Hence, the greatest fraction $\frac{5}{6}$

(c) $\frac{10}{14}, \frac{8}{14}, \frac{4}{14}$

$$\begin{array}{r} 14 \overline{)100} \text{ (.7)} \quad 14 \overline{)80} \text{ (.5)} \quad 14 \overline{)40} \text{ (.2)} \\ \underline{-98} \quad \underline{-70} \quad \underline{-28} \\ 02 \quad 0 \quad 12 \end{array}$$

(If two or more fraction is same denominator then the fraction which has the greater numerator is greatest fraction)

Hence, the greatest fraction $\frac{10}{14}$

(d) $\frac{15}{18}, \frac{7}{18}, \frac{3}{18}$

$$\begin{array}{r} 18 \overline{)150} \text{ (.8)} \quad 18 \overline{)70} \text{ (.3)} \quad 18 \overline{)30} \text{ (.1)} \\ \underline{-144} \quad \underline{-54} \quad \underline{-18} \\ 06 \quad 16 \quad 12 \end{array}$$

(If two or more fraction is same denominator then the fraction which has the greatest nominator is greatest factor)

Hence, the greatest fraction $\frac{15}{18}$

4. Arrange the following fractions in ascending order :

(a) **Ascending order** $= \frac{1}{7} < \frac{4}{7} < \frac{5}{7} < \frac{6}{7}$

(If two or more fraction has same denominator then the fraction which has the smaller numerator is smaller fraction and greater numerator is greater fraction)

(b) **Ascending order** $= \frac{1}{3} < \frac{2}{3} < \frac{4}{3} < \frac{5}{3}$

(If two or more fraction has same denominator then the fraction which has the smaller numerator is smallest fraction and greater numerator is greatest fraction)

(c) **Ascending order**
 $= \frac{6}{18} < \frac{11}{18} < \frac{14}{18} < \frac{17}{18}$

(If two or more fraction has same denominators then the fraction which has the smallest numerator is smallest fraction and greatest numerator is greatest fraction.)

(d) **Ascending order**

$$= \frac{2}{15} < \frac{8}{15} < \frac{10}{15} < \frac{11}{15}$$

(If two or more fraction has same denominators then the fraction which has the smallest numerator is smallest fraction and greatest numerator is greatest fraction.)

5. Arrange the following fractions in descending order :

(a) **Descending order** = $\frac{2}{4}, \frac{2}{6}, \frac{2}{8}, \frac{2}{12}$

(If two or more fractions have the same numerator then the fraction which has the greater denominator is smaller than the other and which has the smaller denominator is greater than the other.)

(b) **Descending order** = $\frac{1}{9}, \frac{2}{9}, \frac{4}{9}, \frac{7}{9}$

(If two or more fraction which have the same denominator then the fraction which has greatest nominator is smallest fraction and which has smallest nominator is greatest fraction.)

(c) **Descending order** = $\frac{5}{4}, \frac{5}{6}, \frac{5}{13}, \frac{5}{17}$

(If two or more fraction nominator is same then the fraction which has smallest denominator is greatest fraction and which has greatest denominator is smallest fraction.)

(d) **Descending order** = $\frac{3}{5}, \frac{3}{9}, \frac{3}{11}, \frac{3}{14}$

(If two or more fraction denominator is same then the fraction which has smallest denominator is greatest fraction and which has greatest denominator is smallest fraction.)

6. Abhishek reads book part can hour = $\frac{2}{26}$

Ankit reads book part an hour = $\frac{4}{24}$

$$\begin{array}{r} 6 \overline{) 20} \text{ } .3 \\ \underline{- 18} \\ 2 \end{array} \quad \begin{array}{r} 24 \overline{) 40} \text{ } .1 \\ \underline{- 24} \\ 16 \end{array}$$

Hence, Ankit reads book part.

7. Ayush knit part of a sweater = $\frac{14}{25}$

Iti knit part of a sweater = $\frac{16}{23}$

$$\begin{array}{r} 25 \overline{) 140} \text{ } .5 \\ \underline{- 125} \\ 15 \\ \underline{- 16} \\ 23 \end{array} \quad \begin{array}{r} 23 \overline{) 160} \text{ } .6 \\ \underline{- 138} \\ 22 \end{array}$$

Hence, Iti knit more part of a sweater.

Exercise Time - 8.4

1. Find the sum :

(a) $\frac{2}{12} + \frac{7}{12} = \frac{2+7}{12} = \frac{9}{12}$

(b) $\frac{5}{6} + \frac{4}{6} = \frac{5+4}{6} = \frac{9}{6}$

(c) $\frac{3}{8} + \frac{5}{8} = \frac{8}{8} = 1$

(d) $\frac{5}{16} + \frac{8}{16} = \frac{5+8}{16} = \frac{13}{16}$

(e) $\frac{8}{18} + \frac{7}{18} = \frac{8+7}{18} = \frac{15}{18}$

(f) $\frac{9}{23} + \frac{5}{23} = \frac{9+5}{23} = \frac{14}{23}$

(g) $\frac{3}{10} + \frac{8}{10} = \frac{3+8}{10} = \frac{11}{10}$

(h) $\frac{6}{35} + \frac{5}{35} = \frac{6+5}{35} = \frac{11}{35}$

(i) $\frac{21}{43} + \frac{5}{43} = \frac{21+5}{43} = \frac{26}{43}$

2. Find the difference :

- (a) $\frac{5}{8} - \frac{2}{8} = \frac{5-2}{8} = \frac{3}{8}$
 (b) $\frac{18}{23} - \frac{13}{23} = \frac{18-13}{23} = \frac{5}{23}$
 (c) $\frac{8}{21} - \frac{4}{21} = \frac{8-4}{21} = \frac{4}{21}$
 (d) $\frac{12}{34} - \frac{22}{34} = \frac{12-22}{34} = \frac{-10}{34}$
 (e) $\frac{36}{56} - \frac{31}{56} = \frac{36-31}{56} = \frac{5}{56}$
 (f) $\frac{85}{108} - \frac{63}{108} = \frac{85-63}{108} = \frac{22}{108}$
 (g) $\frac{64}{27} - \frac{2}{27} = \frac{64-2}{27} = \frac{62}{27}$
 (h) $\frac{54}{98} - \frac{41}{98} = \frac{54-41}{98} = \frac{13}{98}$

3. Fill in the blanks :

- (a) $\frac{2}{14} + \frac{[]}{14} = \frac{11}{14}$
 $= \frac{11}{14} - \frac{2}{14} = \frac{11-2}{14} = \frac{[9]}{14}$
 (b) $\frac{3}{7} + \frac{5}{7} = \frac{[]}{[]}$
 $= \frac{3}{7} + \frac{5}{7} = \frac{3+5}{7} = \frac{[8]}{[7]}$
 (c) $\frac{[]}{15} + \frac{5}{15} = \frac{12}{15}$
 $= \frac{12}{15} - \frac{5}{15} = \frac{12-5}{15} = \frac{[7]}{15}$
 (d) $\frac{6}{19} + \frac{4}{19} = \frac{[]}{19}$
 $= \frac{6}{19} + \frac{4}{19} = \frac{6+4}{19} = \frac{[10]}{19}$
 (e) $\frac{9}{49} + \frac{[]}{49} = \frac{19}{49}$
 $= \frac{19}{49} - \frac{9}{49} = \frac{19-9}{49} = \frac{[10]}{49}$
 (f) $\frac{5}{23} + \frac{[]}{23} = \frac{16}{23}$
 $= \frac{16}{23} - \frac{5}{23} = \frac{16-5}{23} = \frac{[11]}{23}$

(g) $\frac{7}{35} - \frac{2}{35} = \frac{[]}{[]}$
 $= \frac{7}{35} - \frac{2}{35} = \frac{7-2}{35} = \frac{5}{35}$
 (i) $\frac{18}{56} - \frac{[]}{56} = \frac{5}{56}$
 $= \frac{18}{56} - \frac{5}{56} = \frac{18-5}{56} = \frac{13}{56}$
 So, $\frac{[5]}{[35]}$ or $\frac{[1]}{[7]}$

4. Subtract :

- (a) $\frac{7}{15}$ from $\frac{18}{15}$
 $= \frac{18}{15} - \frac{7}{15} = \frac{18-7}{15} = \frac{11}{15}$
 (b) $\frac{7}{48} - \frac{2}{48} = \frac{7-2}{48} = \frac{5}{48}$
 (c) $\frac{27}{66} - \frac{15}{66} = \frac{27-15}{66} = \frac{12}{66}$
 (d) $\frac{39}{74} - \frac{17}{74} = \frac{39-17}{74} = \frac{22}{74}$
 (e) $\frac{64}{79} - \frac{6}{79} = \frac{64-6}{79} = \frac{58}{79}$
 (f) $\frac{4}{16} - \frac{1}{16} = \frac{4-1}{16} = \frac{3}{16}$

Exercise Time - 8.5

- $\frac{12}{8} - \frac{2}{8} = \frac{12-2}{8} = \frac{10}{8}$
 Hence, $\frac{10}{8}$ is added to $\frac{2}{8}$ to get $\frac{12}{8}$.
- $\frac{25}{36} - \frac{5}{36} = \frac{25-5}{36} = \frac{20}{36}$
 Hence, $\frac{20}{36}$ is added to $\frac{5}{36}$ to get $\frac{25}{36}$.
- $\frac{5}{13} + \frac{7}{13} + \frac{9}{13} = \frac{5+7+9}{13} = \frac{21}{13}$
 $\therefore$ She knit in these three days = $\frac{21}{13}$
- $\frac{4}{16} + \frac{5}{16} + \frac{2}{16} = \frac{4+5+2}{16} = \frac{11}{16}$
 $\therefore$ Katrina read in three hours = $\frac{11}{16}$.

5. Sanyam did a work on first day = $\frac{6}{8}$

Work on second day = $\frac{3}{8}$

$$\therefore \frac{6}{8} + \frac{3}{8} = \frac{6+3}{8} = \frac{9}{8}$$

Hence, Sanyam finish in two days = $\frac{9}{8}$

6. Sagar gave to his brother = $\frac{2}{3}$

He gave to his sister = $\frac{5}{3}$

$$\therefore \frac{2}{3} + \frac{5}{3} = \frac{7}{3}$$

Hence, he give in all toffees = $\frac{7}{3}$

7. On fruits Ayush spent = $\frac{7}{16}$

On juice Ayush spent = $\frac{4}{16}$

$$\therefore \frac{7}{16} + \frac{4}{16} = \frac{7+4}{16} = \frac{11}{16}$$

Hence, he spend money = $\frac{11}{16}$

Chapter-9 (Money)

Exercise Time - 9.1

1. Write the following amounts in symbolic form (in figures) :

(a) 50 paise = **0.50** (b) 75 paise = **0.75**

(c) 4 rupees 50 paise = ₹ **4.50**

(d) to (f) Do same as above

2. Write the following amounts in words :

(a) Nine paise

(b) Thirty eight rupees seven paise

(c) Fifty six rupees forty five paise

(d) Five hundred eight rupees fifty paise

(e) Six hundred forty rupees thirty eight paise

(f) One thousand two hundred fifteen rupees five paise

3. Given below are some amount in words, express them in figures :

(a) ₹ 84.43 (b) ₹ 69.34 (c) ₹ 27.15

(d) ₹ 32.20 (e) ₹ 350.22 (f) ₹ 2000.07

Exercise Time - 9.2

1. Convert each into paise :

(a) 9.00 = $9 \times 100\text{p} = 900\text{p}$

($\because$ ₹ 1 = 100p)

(b) 15 = $15 \times 100\text{p} = 1500\text{p}$

($\because$ ₹ 1 = 100p)

(c) 75 = $75 \times 100\text{p} = 7500\text{p}$

($\because$ ₹ 1 = 100p)

(d) 51 = $51 \times 100\text{p} = 5100\text{p}$

($\because$ ₹ 1 = 100p)

(e) 9 = $9 \times 100\text{p} = 900\text{p}$ 0.28p

$\therefore 900 + 28 = 928\text{p}$

($\because$ ₹ 1 = 100p)

(f) to (l) Do same as above.

2. Convert the following into rupees and paise :

(a) 306p = 300p + 6p

$\because 100\text{p} = ₹ 1 \therefore 300\text{p} = ₹ 3$

Hence, 300p + 6p

(b) 605p = 600p + 5p

$\because 100\text{p} = ₹ 1$

$\therefore 600\text{p} = 6$

Hence, 600p + 5p = 6 and 5 paise

(c) 744p = 700 + 44p

$\because 100\text{p} = ₹ 1 \therefore 700\text{p} = 7$

Hence, 700p + 44p = 7 and 44paise

(d) 4015p = 4000p + 15p

$\because 100\text{p} = ₹ 1 \therefore 4000 = 40$

Hence, 4000p + 15p = 40 and 15p

Ans

(e) 4600p = 46

$\because 100\text{p} = ₹ 1 \therefore 4600\text{p} = 46$

(f) 1400p

$\because 100\text{p} = ₹ 1 \therefore 1400\text{p} = 14$

(g) 1264p = 1200p + 64p

$\because 100\text{p} = ₹ 1 \therefore 1200\text{p} = 12$

Hence, 1200p + 64p = 12 and 64 paise

(h) 1613p = 1600p + 13p

$$\therefore 100p = ₹ 1 \therefore 1600p = 16$$

Hence, $1600p + 13p = 16$ and 13 paise

(i) $8704p = 8700p + 4p$

$$\therefore 100p = ₹ 1 \therefore 8700p = 84$$

Hence, $8700p + 4p = 84$ and 4 paise

(j) to (l): Do same as above.

Exercise Time - 9.3

1. Add :

(a) ₹ P.	(b) ₹ P.
194 45	540 04
+ 264 27	+ 280 44
<u>458 72</u>	<u>820 48</u>

(c) ₹ P.	(d) ₹ P.
215 18	27 04
+ 369 26	38 17
<u>584 44</u>	+ 506 24
	<u>571 45</u>

(e) ₹ P.	(f) ₹ P.
310 06	64 80
205 25	73 14
+ 88 73	+ 432 33
<u>604 04</u>	<u>570 27</u>

2. (a) ₹ P.	(b) ₹ P.
63 78	90 93
33 24	6 07
+ 53 00	+ 77 00
<u>150 02</u>	<u>174 00</u>

(c) ₹ P.	(d) ₹ P.
148 74	183 40
73 71	105 04
+ 44 52	+ 13 00
<u>266 97</u>	<u>301 44</u>

(e) ₹ P.
8 14
5 20
+ 0 38
<u>13 62</u>

adding directly. Case is to be taken to put dot (.) under dot (.) and digits are to be arranged properly.

3. Subtract :

(a) ₹ P.	(b) ₹ P.
<u>1</u>	<u>9 10</u>
0	4 9
- 0 6 7	- 2 5 7 5 5
<u>2 and 3 3</u>	<u>1 6 2 0 4</u>

(c) ₹ P.	(d) ₹ P.
<u>1</u>	<u>9 10</u>
0	10 11 17
- 0 5 5	- 9 9 1 6
<u>1 4 5</u>	<u>0 2 8 1 7</u>

(e) ₹ P.	(f) ₹ P.
<u>9 9</u>	<u>13 11</u>
9 7	2 6
- 8 3 6 7	- 1 5 0 5
<u>1 1 7 0</u>	<u>1 1 2 0</u>

(g) ₹ P.	(h) ₹ P.
<u>13 11</u>	<u>5 12</u>
1 5 9	6 5
- 4 6 1 6	- 4 8 5 4
<u>1 3 0 5</u>	<u>1 5 0 4</u>

Exercise Time - 9.4

1. Multiply :

(a) P.	(b) P.
<u>1</u>	<u>5 2</u>
2 5	5 2
× 2	× 4
<u>50</u>	<u>208</u>

(c) P.	(d) P.
<u>2</u>	<u>1</u>
7 5	6 5
× 4	× 2
<u>300</u>	<u>130</u>

(e) ₹	(f) ₹
<u>1</u>	<u>2</u>
6 2	1 5
× 7	× 5
<u>434</u>	<u>75</u>

Note : In adding the money by this method the same steps are taken while

(g)

$$\begin{array}{r} \text{₹} \\ \boxed{3} \\ 76 \\ \times 6 \\ \hline 456 \end{array}$$

(h)

$$\begin{array}{r} \text{₹} \\ \boxed{6} \boxed{4} \\ 275 \\ \times 8 \\ \hline 2200 \end{array}$$

Exercise Time - 9.5**1. Divide the following :**

$$\begin{array}{r} \text{(a)} \quad 2.90 \\ 2 \overline{) 5.80} \\ \underline{-4 \downarrow} \\ 18 \\ \underline{-18 \downarrow} \\ 0 \end{array}$$

Hence, Q = 2.0

$$\begin{array}{r} \text{(b)} \quad 4.5 \\ 5 \overline{) 20.25} \\ \underline{-20 \downarrow \downarrow} \\ 0025 \\ \underline{-25 \downarrow} \\ 0 \end{array}$$

Hence, Q = 4.5

$$\begin{array}{r} \text{(c)} \quad 8.7 \\ 3 \overline{) 26.13} \\ \underline{-24 \downarrow} \\ 21 \\ \underline{-21 \downarrow} \\ 03 \end{array}$$

Hence, Q = 8.7

$$\begin{array}{r} \text{(d)} \quad 6.5 \\ 8 \overline{) 42.35} \\ \underline{-42 \downarrow \downarrow} \\ 0035 \\ \underline{-35 \downarrow} \\ 0 \end{array}$$

Hence, Q = 6.5

$$\begin{array}{r} \text{(e)} \quad 9.10 \\ 9 \overline{) 81.90} \\ \underline{-81 \downarrow} \\ 16 \\ \underline{-16 \downarrow} \\ 48 \\ \underline{-48 \downarrow} \\ 0 \end{array}$$

Hence, Q = 9.10

$$\begin{array}{r} \text{(f)} \quad 12.6 \\ 8 \overline{) 96.48} \\ \underline{-8 \downarrow} \\ 16 \\ \underline{-16 \downarrow} \\ 048 \\ \underline{-48 \downarrow} \\ 0 \end{array}$$

Hence, Q = 12.6

$$\begin{array}{r} \text{(g)} \quad 3.51 \\ 4 \overline{) 14.04} \\ \underline{-12 \downarrow} \\ 20 \\ \underline{-20 \downarrow} \\ 4 \\ \underline{-4 \downarrow} \\ 0 \end{array}$$

Hence, Q = 3.51

$$\begin{array}{r} \text{(h)} \quad 4.01 \\ 9 \overline{) 36.09} \\ \underline{-36 \downarrow \downarrow} \\ 009 \\ \underline{-9 \downarrow} \\ 0 \end{array}$$

Hence, Q = 4.01

Exercise Time - 9.6

1. Parbha bought, a shirt = ₹ 128.48
Trousers = ₹ 245.43

$$\begin{array}{r} \text{₹} \\ \boxed{1} \\ 128 \quad 45 \\ + 245 \quad 43 \\ \hline 373 \quad 88 \end{array}$$

Hence, he spend together = ₹ 373.88

2. Sapna bought, a notebook = ₹ 14.60

A Pencil = ₹ 3.00

A book = ₹ 47.30

$$\begin{array}{r} \boxed{1} \\ 14.60 \\ 3.00 \\ + 47.30 \\ \hline 64.90 \end{array}$$

Hence, he spend all = ₹ 64.90

3. Roopesh piggy bank had = ₹ 56.40

He borrow some money from his sister = ₹ 79

$$\begin{array}{r} \boxed{8} \boxed{10} \boxed{10} \\ 79.00 \\ - 56.40 \\ \hline 22.60 \end{array}$$

Hence, cost that he borrow from his sister = ₹ 22.60

4. Sohan's bank account has = ₹ 700
He withdraws from his account = ₹ 600.25

$$\begin{array}{r} \boxed{6} \boxed{9} \boxed{9} \boxed{9} \boxed{10} \\ 700.00 \\ - 600.25 \\ \hline 99.75 \end{array}$$

Hence, now the balance in his account = ₹ 99.75

5.

$$\begin{array}{r} \text{Mustard oil} \longrightarrow 54.20 \\ \text{Spices} \longrightarrow 11.10 \\ \text{Pulses} \longrightarrow + 70.45 \\ \hline 135.75 \end{array}$$

$$\begin{array}{r}
 \boxed{1}\boxed{9}\boxed{9}\boxed{9}\boxed{10} \\
 2000.00 \\
 - 135.75 \\
 \hline
 ₹ 64.25
 \end{array}$$

The shopkeeper return ₹ 64.25

6.

$$\begin{array}{r}
 \boxed{2}\boxed{7}\boxed{10} \\
 ₹ 200.00 \\
 - ₹ 29.70 \\
 \hline
 ₹ 8.30
 \end{array}$$

Gaurav did lose money = ₹ 0.8.30

7. (i) A geometry box = ₹ 25.30

A school bag = ₹ 43.45 = ₹ 68.75

$$\begin{array}{r}
 ₹ 25.30 \\
 + ₹ 43.45 \\
 \hline
 ₹ 68.75
 \end{array}$$

(ii) A doll = ₹ 45.00

A cricket ball = ₹ 86.40

$$\begin{array}{r}
 ₹ 45.00 \\
 + ₹ 86.40 \\
 \hline
 131.40
 \end{array}$$

(iii) A football = ₹ 35.80

A pencil = ₹ 3.40

A school bag = ₹ 43.45

$$\begin{array}{r}
 \boxed{1}\boxed{1} \\
 ₹ 35.80 \\
 ₹ 3.40 \\
 + ₹ 43.45 \\
 \hline
 ₹ 82.65
 \end{array}$$

(iv) $\boxed{2}$

$$\begin{array}{r}
 ₹ 3.40 \\
 \times 6 \\
 \hline
 20.40
 \end{array}$$

6 pencils = $3.40 \times 6 = ₹ 20.40$

(v) $\boxed{4}$

$$\begin{array}{r}
 ₹ 45 \\
 \times 9 \\
 \hline
 ₹ 405
 \end{array}$$

9 dolls = $45 \times 9 = ₹ 405$

Chapter-10 (Measurement)

Exercise Time - 10.1

1. Convert the following into 'cm'

(a) $5\text{m} = 5 \times 100\text{cm}$

$= 500\text{ cm}$

(b) $17\text{m} = 17 \times 100\text{cm}$

$= 1700\text{ cm}$

(c) $35\text{m} = 35 \times 100\text{cm}$

$= 3500\text{ cm}$

(d) $5\text{m} = 40\text{ cm}$

$5\text{ m} = 5 \times 100\text{ cm} = 500\text{cm}$

$\therefore 500\text{cm} + 40\text{cm}$

$= 540\text{cm}$

(e) $30\text{m } 15\text{cm}$

$30\text{m} = 30 \times 100\text{cm} = 3000\text{cm}$

$\therefore 3000\text{cm} + 15\text{cm}$

$= 3015\text{ cm}$

(f) $43\text{m } 76\text{cm}$

$43\text{m} = 43 \times 100 = 4300\text{ cm}$

$\therefore 4300\text{cm} + 76\text{cm}$

$= 4376\text{cm}$

(g) $70\text{m } 48\text{cm}$

$70\text{m} = 70 \times 100\text{cm} = 7000\text{ cm}$

$\therefore 7000\text{cm} + 48\text{cm}$

$= 7048\text{ cm}$

(h) $98\text{m } 94\text{cm}$

$98\text{m} = 98 \times 100\text{cm} = 9800\text{cm}$

$\therefore 9800\text{cm} + 94\text{cm}$

$= 9894\text{cm}$

(i) $10\text{m } 10\text{cm}$

$10\text{m} = 10 \times 100\text{cm} = 1000\text{cm}$

$\therefore 1000\text{cm} + 10\text{ cm}$

$= 1010\text{cm}$

2. Convert the following into 'm' and 'cm' :

- (a) $800 \text{ cm} = 8 \text{ m}$ ($\therefore 100 \text{ cm} = 1 \text{ m}$)
 (b) $860 \text{ cm} = 800 \text{ cm} + 60 \text{ m} = 8 \text{ m } 60 \text{ cm}$
 ($\therefore 800 \text{ cm} = 8 \text{ m}$)
 (c) $185 \text{ cm} = 100 \text{ cm} + 85 \text{ cm} = 1 \text{ m } 85 \text{ cm}$ ($\therefore 100 \text{ cm} = 1 \text{ m}$)
 (d) $444 \text{ cm} = 400 \text{ cm} + 44 \text{ cm} = 4 \text{ m } 44 \text{ cm}$ ($\therefore 400 \text{ cm} = 4 \text{ m}$)
 (e) $1500 \text{ cm} = 15 \text{ m}$ ($\therefore 100 \text{ cm} = 1 \text{ m}$)
 (f) $706 \text{ cm} = 700 \text{ cm} + 6 \text{ cm} = 7 \text{ m } 6 \text{ cm}$
 ($\therefore 700 \text{ cm} = 7 \text{ m}$)
 (g) $5517 \text{ cm} = 5500 \text{ cm} + 17 \text{ cm} = 55 \text{ m } 17 \text{ cm}$ ($\therefore 5500 \text{ cm} = 55 \text{ m}$)
 (h) $3333 \text{ cm} = 3300 \text{ cm} + 33 = 33 \text{ m } 33 \text{ cm}$ ($\therefore 3300 \text{ cm} = 33 \text{ m}$)
 (i) $1309 \text{ cm} = 1300 \text{ cm} + 9 \text{ cm} = 13 \text{ m } 9 \text{ cm}$ ($\therefore 1300 \text{ cm} = 13 \text{ m}$)

3. Convert the following into 'm' :

- (a) $9 \text{ km} = 9 \times 1000 \text{ m} = 9000 \text{ m}$
 ($\therefore 1 \text{ km} = 1000 \text{ m}$)
 (b) $15 \text{ km} = 15 \times 1000 \text{ m} = 15000 \text{ m}$
 ($\therefore 1 \text{ km} = 1000 \text{ m}$)
 (c) $30 \text{ km} = 30 \times 1000 \text{ m} = 30000 \text{ m}$
 ($\therefore 1 \text{ km} = 1000 \text{ m}$)
 (d) $7 \text{ km } 60 \text{ m}$
 $7 \text{ km} = 7 \times 1000 \text{ m} = 7000 \text{ m}$
 ($\therefore 1 \text{ km} = 1000 \text{ m}$)
 $7000 \text{ m} + 60 \text{ m} = 7060 \text{ m}$
 (e) $5 \text{ km } 120 \text{ m}$
 $5 \text{ km} = 5 \times 1000 \text{ m} = 5000 \text{ m}$
 $\therefore 5000 \text{ m} + 120 \text{ m} = 5120 \text{ m}$
 (f) $3 \text{ km } 6 \text{ m}$
 $3 \text{ km} = 3 \times 1000 \text{ m} = 3000 \text{ m}$
 $\therefore 3000 \text{ m} + 6 \text{ m} = 3006 \text{ m}$
 (g) $8 \text{ km } 608 \text{ m}$
 $8 \text{ km} = 8 \times 1000 \text{ m} = 8000 \text{ m}$
 $\therefore 8000 \text{ m} + 608 \text{ m} = 8608 \text{ m}$
 (h) $6 \text{ km } 60 \text{ m}$
 $6 \text{ km} = 6000 \text{ m}$
 $\therefore 6000 \text{ m} + 60 \text{ m} = 6060 \text{ m}$
 (i) $9 \text{ km } 500 \text{ m}$
 $9 \text{ km} = 9000 \text{ m}$
 $\therefore 9000 + 500 \text{ m} = 9500 \text{ m}$

4. Convert the following into 'km and 'm' :

- (a) $3476 \text{ m} = 3000 \text{ m} + 476 \text{ m} = 3 \text{ km } 476 \text{ m}$ ($\therefore 3000 \text{ m} = 3 \text{ km}$)
 (b) $6317 \text{ m} = 6000 \text{ m} + 317 \text{ m} = 6 \text{ km } 317 \text{ m}$ ($\therefore 6000 \text{ m} = 6 \text{ km}$)
 (c) $3060 \text{ m} = 3000 \text{ m} + 60 \text{ m} = 3 \text{ km } 60 \text{ m}$ ($\therefore 3000 \text{ m} = 3 \text{ km}$)
 (d) $6009 = 6000 \text{ m} + 9 \text{ m} = 6 \text{ km } 9 \text{ m}$ ($\therefore 6000 \text{ m} = 6 \text{ km}$)
 (e) $1580 \text{ m} = 1000 \text{ m} + 580 \text{ m} = 1 \text{ km } 580 \text{ m}$
 (f) $8090 \text{ m} = 8000 \text{ m} + 90 \text{ m} = 8 \text{ km } 90 \text{ m}$ ($\therefore 8000 \text{ m} = 8 \text{ km}$)

5. Fill in the blanks :

- (a) $9 \text{ m} = 900 \text{ cm}$ ($\therefore 1 \text{ m} = 100 \text{ cm}$)
 (b) $8 \text{ m } 40 \text{ cm} = 800 \text{ cm} + 40 \text{ cm} = 840 \text{ cm}$ ($\therefore 8 \text{ m} = 800 \text{ cm}$)
 (c) $15 \text{ m} + 18 \text{ cm} = 1500 \text{ cm} + 18 \text{ cm} = 1518 \text{ cm}$ ($\therefore 15 \text{ m} = 1500 \text{ cm}$)
 (d) $700 \text{ cm} = 7 \text{ m}$ ($\therefore 100 \text{ cm} = 1 \text{ m}$)
 (e) $16 \text{ m } 78 \text{ cm} = 1600 \text{ cm} + 78 \text{ cm} = 1678 \text{ cm}$ ($\therefore 16 \text{ m} = 1600 \text{ cm}$)
 (f) $18 \text{ m } 5 \text{ cm} = 1800 \text{ cm} + 5 \text{ cm} = 1805 \text{ cm}$ ($\therefore 1800 \text{ cm} = 18 \text{ m}$)
 (g) $5000 \text{ m} = 5 \text{ km}$ ($\therefore 1000 \text{ m} = 1 \text{ km}$)
 (h) $9000 \text{ m} = 9 \text{ km}$ ($\therefore 1000 \text{ m} = 1 \text{ km}$)
 (i) $15 \text{ km } 90 \text{ m} = 15000 \text{ m} + 90 \text{ m} = 15090 \text{ m}$ ($\therefore 15000 \text{ m} = 15 \text{ km}$)
 (j) $5 \text{ km } 780 \text{ m} = 5000 \text{ m} + 780 \text{ m} = 5780 \text{ m}$ ($\therefore 5000 \text{ m} = 5 \text{ km}$)
 (k) $4050 \text{ m} = 4000 \text{ m} + 50 \text{ m} = 4 \text{ km } 50 \text{ m}$ ($\therefore 4000 \text{ m} = 4 \text{ km}$)
 (l) $6 \text{ km } 7 \text{ m} = 6000 \text{ m} + 7 \text{ m} = 6007 \text{ m}$

Exercise Time - 10.2

1. Add the following with conversion :

(a) km	m	(b) m	cm
6	1	2	1
8	8	0	4
+ 4	5	+ 3	9
7	0	7	1
1	1	5	9
2	3	2	1

Hence, 11237m Hence, 5921m

$$\begin{array}{r} \text{(c)} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ 20 \quad 20 \\ + 60 \quad 10 \\ \hline 80 \quad 30 \end{array} \quad \begin{array}{r} \text{(d)} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ \boxed{1} \\ 68 \quad 15 \\ + 15 \quad 14 \\ \hline 83 \quad 29 \end{array} \end{array}$$

Hence, 8030m Hence, 8329m

$$\begin{array}{r} \text{(e)} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ \boxed{1} \quad \boxed{1} \\ 15 \quad 25 \\ + 19 \quad 08 \\ \hline 34 \quad 33 \end{array} \quad \begin{array}{r} \text{(f)} \quad \begin{array}{r} \text{km} \quad \text{m} \\ \boxed{1} \\ 11 \quad 06 \\ + 37 \quad 85 \\ \hline 48 \quad 92 \end{array} \end{array}$$

Hence, 3433m Hence, 48000
+ 92 = 4892m

2. Add the following without conversion :

$$\begin{array}{r} \text{(a)} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ \boxed{6} \boxed{1} \quad \boxed{1} \\ 67 \quad 13 \\ + 12 \quad 08 \\ \hline 79 \quad 21 \end{array} \quad \begin{array}{r} \text{(b)} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ 19 \quad 14 \\ + 8 \quad 17 \\ \hline 27 \quad 31 \end{array} \end{array}$$

79m 21cm

27m 31cm

$$\begin{array}{r} \text{(c)} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ \boxed{1} \\ 16 \quad 75 \\ + 37 \quad 11 \\ \hline 53 \quad 86 \end{array} \quad \begin{array}{r} \text{(d)} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ \boxed{2} \boxed{8} \quad \boxed{1} \\ 28 \quad 24 \\ 60 \quad 26 \\ + 230 \quad 32 \\ \hline 318 \quad 82 \end{array} \end{array}$$

53m 86cm

318m 82cm

$$\begin{array}{r} \text{(e)} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ \boxed{1} \boxed{1} \quad \boxed{1} \\ 27 \quad 38 \\ 220 \quad 47 \\ + 16 \quad 63 \\ \hline 264 \quad 48 \end{array} \quad \begin{array}{r} \text{(f)} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ \boxed{1} \boxed{2} \\ 330 \quad 90 \\ 25 \quad 83 \\ + 15 \quad 71 \\ \hline 372 \quad 44 \end{array} \end{array}$$

264m 48cm

372m 44cm

3. Subtract the following with conversion :

$$\begin{array}{r} \text{(a)} \quad \begin{array}{r} 51\text{m } 154\text{cm} \rightarrow \begin{array}{r} \boxed{4} \boxed{11} \boxed{0} \boxed{15} \\ \cancel{5} \cancel{1} \cancel{5} \cancel{4} 4 \text{ cm} \\ - 36 \text{m } 71\text{cm} \rightarrow \begin{array}{r} - 36 \text{m } 71\text{cm} \\ \hline 150 \text{m } 83 \text{ cm} \end{array} \end{array} \end{array}$$

So, 36m 71cm – 51m 154cm
= 15m 83cm

$$\begin{array}{r} \text{(b)} \quad 75\text{m } 88\text{cm} \rightarrow \begin{array}{r} 75 \text{m } 88 \text{ cm} \\ - 53 \text{m } 24 \text{ cm} \\ \hline 22 \text{m } 64 \text{ cm} \end{array} \end{array}$$

So, 75m 88cm – 53m 24cm
= 22m 64cm

$$\begin{array}{r} \text{(c)} \quad 70\text{m } 95\text{cm} \rightarrow \begin{array}{r} \boxed{6} \boxed{10} \\ \cancel{7} \cancel{0} 95 \text{ cm} \\ - 16 \text{m } 90\text{cm} \rightarrow \begin{array}{r} - 16 \text{m } 90 \text{ cm} \\ \hline 54 \text{m } 05 \text{ cm} \end{array} \end{array}$$

So, 70m 95cm – 16m 90cm = 5405cm

$$\begin{array}{r} \text{(d)} \quad 27\text{m } 91\text{cm} \rightarrow \begin{array}{r} \boxed{8} \boxed{11} \\ 27 \cancel{9} \cancel{1} \text{ cm} \\ - 15 \text{m } 83\text{cm} \rightarrow \begin{array}{r} - 15 \text{m } 83 \text{ cm} \\ \hline 12 \text{m } 08 \text{ cm} \end{array} \end{array}$$

So, 27m 91cm – 15m 83cm
= 12m 08cm

$$\begin{array}{r} \text{(e)} \quad 15\text{km } 210\text{m} \rightarrow \begin{array}{r} \boxed{2} \boxed{11} \\ 15 \cancel{2} \cancel{1} \cancel{0} \text{ cm} \\ - 7 \text{km } 190\text{m} \rightarrow \begin{array}{r} - 7 \text{km } 190 \text{ cm} \\ \hline 8 \text{ km } 020 \text{ cm} \end{array} \end{array}$$

So, 15km 210m – 7km 190m
= 8km 020m

$$\begin{array}{r} \text{(f)} \quad 5\text{km } 270\text{m} \rightarrow \begin{array}{r} 5 \text{ km } 270 \text{ m} \\ - 2 \text{km } 150\text{m} \rightarrow \begin{array}{r} - 2 \text{ km } 150 \\ \hline 3 \text{ km } 120 \text{ m} \end{array} \end{array}$$

So, 5km 270m – 2km 150m
= 3km 120m

4. Subtract the following without conversion :

$$\begin{array}{r} \text{(a)} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ 5 \quad 40 \\ - 2 \quad 20 \\ \hline 3 \quad 20 \end{array} \quad \begin{array}{r} \text{(b)} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ 16 \quad 28 \\ - 8 \quad 17 \\ \hline 8 \quad 11 \end{array} \end{array}$$

Hence, 3m 20cm

Hence, 8m 11cm

$$\begin{array}{r} \text{(c)} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ 29 \quad 36 \\ - 9 \quad 25 \\ \hline 20 \quad 11 \end{array} \quad \begin{array}{r} \text{(d)} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ \boxed{7} \boxed{13} \quad \boxed{2} \boxed{14} \\ \cancel{8} \cancel{8} \quad \cancel{2} \cancel{2} \\ - 27 \quad 28 \\ \hline 58 \quad 06 \end{array} \end{array}$$

Hence, 20m 11cm

Hence, 58m 06cm

$$\begin{array}{r}
 \begin{array}{r}
 \text{(e)} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ \boxed{1}\boxed{9}\boxed{10} \\ 288 \\ - 94 \\ \hline 106 \end{array} \\
 \end{array}
 \end{array}$$

Hence, 106m 11cm

$$\begin{array}{r}
 \text{(f)} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ \boxed{5}\boxed{10} \\ 188 \\ - 84 \\ \hline 76 \end{array} \\
 \end{array}$$

Hence, 76m 30cm

Exercise Time - 10.3

1. Shopkeeper Red cloth bought = 23m 16cm

Blue cloth bought = 35m 34cm

Hence shopkeeper buy altogether = 58m 50cm

$$\begin{array}{r}
 \begin{array}{r} \text{m} \quad \text{cm} \\ 23 \quad 16 \\ + 35 \quad 34 \\ \hline 58 \quad 50 \end{array}
 \end{array}$$

2. Roll of wire = 95.00

Three pieces of wire =

Hence left length of wire = 37m 40cm

$$\begin{array}{r}
 \begin{array}{r} \text{m} \quad \text{cm} \\ 14 \quad 40 \\ 25 \quad 70 \\ + 17 \quad 50 \\ \hline 57 \quad 60 \end{array}
 \end{array}$$

3. Varun jumped = 1m25cm high

Sumit jumped = 35cm high

1m25cm > 35cm

Hence, Varun jumped higher.

$$\begin{array}{r}
 \begin{array}{r} \text{m} \quad \text{cm} \\ \boxed{0} \\ 1.25 \\ - 0.35 \\ \hline 0.90 \end{array}
 \end{array}$$

4. The total number of threads

$$\begin{array}{r}
 \begin{array}{r} \text{m} \quad \text{cm} \\ \boxed{1}\boxed{1} \quad \boxed{2} \\ 124 \quad 86 \\ 155 \quad 34 \\ + 47 \quad 40 \\ \hline 326 \quad 80 \end{array}
 \end{array}$$

Hence 326m 80 cm

5. Rajan travelled by a car = 200km 400m

By bike = 40km 530m

The total distance covered by him

$$\begin{array}{r}
 \begin{array}{r} \text{km} \quad \text{m} \\ 200 \quad 400 \\ + 40 \quad 530 \\ \hline 240 \quad 930 \end{array}
 \end{array}$$

Hence, 240km 930m

6. Pink cloth = 400m

Sell out the cloth on day = 24m 28cm

$$\begin{array}{r}
 \begin{array}{r} \text{m} \quad \text{cm} \\ \boxed{3}\boxed{9}\boxed{9} \quad \boxed{9}\boxed{10} \\ 400 \quad 900 \\ - 24 \quad 28 \\ \hline 375 \quad 72 \end{array}
 \end{array}$$

Hence, left cloth in his shop

= 375m 72cm

Exercise Time - 10.4

1. Multiply :

$$\begin{array}{r}
 \begin{array}{r} \text{m} \quad \text{cm} \\ \boxed{4} \\ 70 \quad 61 \\ \times 7 \\ \hline 494 \quad 27 \end{array}
 \end{array}$$

Hence, 70m 67cm $\times$ 7

= 494m 27cm

$$\begin{array}{r}
 \begin{array}{r} \text{m} \quad \text{cm} \\ \boxed{1}\boxed{1}\boxed{1} \quad \boxed{1} \\ 115 \quad 36 \\ \times 3 \\ \hline 346 \quad 08 \end{array}
 \end{array}$$

Hence, 115m $\times$ 36cm $\times$ 3

= 346m 08cm

$$\begin{array}{r}
 \begin{array}{r} \text{m} \quad \text{cm} \\ \boxed{1}\boxed{0}\boxed{1} \quad \boxed{2} \\ 120 \quad 35 \\ \times 5 \\ \hline 600 \quad 75 \end{array}
 \end{array}$$

Hence, 120 $\times$ 35cm

= 600m 75cm

$$\begin{array}{r}
 \text{m} \qquad \qquad \text{cm} \\
 \boxed{3}\boxed{4}\boxed{1} \quad \boxed{2}\boxed{4} \\
 335 \quad 125 \\
 \times \qquad \qquad 9 \\
 \hline
 3016 \quad 125
 \end{array}$$

Hence, $335\text{m} \times 125\text{cm} = 3016\text{m}$

$$\begin{array}{r}
 \text{km} \qquad \qquad \text{m} \\
 \boxed{2}\boxed{2} \\
 15 \quad 500 \\
 \times 4 \\
 \hline
 62 \quad 000
 \end{array}$$

Hence, $15\text{km } 500\text{m} = 125\text{cm}$

$$\begin{array}{r}
 \text{km} \qquad \qquad \text{m} \\
 \boxed{3}\boxed{2} \\
 75 \quad 300 \\
 \times 6 \\
 \hline
 451 \quad 800
 \end{array}$$

Hence, $75\text{km } 800\text{m} = 625\text{km}$

$$\begin{array}{r}
 \text{km} \qquad \qquad \text{m} \\
 \boxed{1}\boxed{1} \quad \boxed{1} \\
 125 \quad 75 \\
 \times 2 \\
 \hline
 251 \quad 50
 \end{array}$$

Hence, $125\text{km } 75\text{cm} \times 2 = 25\text{km } 50\text{m}$

$$\begin{array}{r}
 \text{km} \qquad \qquad \text{m} \\
 \boxed{3}\boxed{2} \quad \boxed{1}\boxed{2} \\
 275 \quad 125 \\
 \times 4 \\
 \hline
 1100 \quad 500
 \end{array}$$

Hence, $215\text{km } 125\text{m} \times 4 = 100\text{km } 500\text{m}$

2. Divide the following :

$$\begin{array}{r}
 112 \\
 4 \overline{) 448} \\
 \underline{-4} \downarrow \\
 04 \downarrow \\
 \underline{-4} \downarrow \\
 08 \\
 \underline{-08} \\
 0
 \end{array}$$

So, $448 \div 4 = 112$

$$\begin{array}{r}
 23 \\
 3 \overline{) 69} \\
 \underline{-6} \downarrow \\
 09 \\
 \underline{-9} \\
 0
 \end{array}$$

So, $69 \div 3 = 23\text{cm}$

$$\begin{array}{r}
 61 \\
 6 \overline{) 366} \\
 \underline{-36} \downarrow \\
 006 \\
 \underline{-6} \\
 0
 \end{array}$$

So, $366 \div 6 = 61\text{m}$

$$\begin{array}{r}
 24 \\
 2 \overline{) 48} \\
 \underline{-4} \downarrow \\
 08 \\
 \underline{-8} \\
 0
 \end{array}$$

So, $48 \div 2 = 24\text{cm}$

(e) $168 \text{ km } 80\text{cm} \div 4$
 $168 \text{ km} = 1000 + 68\text{m}$
 $= 1068 \text{ m}$
 $\therefore 1068 \text{ m} + 804 \text{ m}$
 $= 1872 \text{ m}$

$$\begin{array}{r}
 468 \\
 4 \overline{) 1872} \\
 \underline{-16} \downarrow \\
 27 \downarrow \\
 \underline{-24} \downarrow \\
 32 \\
 \underline{-32} \\
 0
 \end{array}$$

Hence, $168\text{km } 804\text{m} \div 4 = 468\text{m}$

(f) $684\text{km } 54\text{m} \div 9$
 $684 \text{ km} = 6000 \text{ m} + 84\text{m}$
 $= 6084 \text{ m}$
 $\therefore 6084\text{m} + 54\text{m}$
 $= 6138 \text{ m}$

$$\begin{array}{r}
 56 \\
 6 \overline{) 336} \\
 \underline{- 30} \downarrow \\
 036 \\
 \underline{- 36} \\
 0
 \end{array}$$

Hence length of each piece = $336\text{m} \div 6$
 $= 56\text{m}$

Exercise Time - 10.6

1. Convert the following into 'g' :

- $4\text{ kg} = 4 \times 1000\text{g} = 4000\text{g}$
 $(\because 1\text{ kg} = 1000\text{g})$
- $7\text{kg} = 7 \times 1000\text{g} = 7000\text{g}$
 $(\because 1\text{ kg} = 1000)$
- $4\text{kg } 400\text{g}$
 $(\because 6\text{kg} = 6 \times 1000\text{g})$
 $= 4000\text{g} + 400\text{g} = 4000\text{g}$
- $6\text{kg } 9\text{g}$
 $(\because 6\text{ kg} = 6 \times 1000\text{ g})$
 $= 6000\text{ g} + 9\text{ g} = 6009\text{ g}$
- $9\text{kg } 28\text{g}$
 $(\because 9\text{kg} = 9 \times 1000\text{g} = 9000\text{g})$
 $= 9000\text{g} + 28\text{g} = 9028\text{g}$
- $15\text{kg } 250\text{g}$
 $(\because 15\text{kg} = 15 \times 1000\text{g} = 15000\text{g})$
 $= 15000\text{g} + 250\text{g} = 15250\text{g}$
- $8\text{kg } 546\text{g}$
 $(\because 8\text{kg} = 8 \times 1000\text{g})$
 $8000\text{g} + 546\text{g} = 8546\text{g}$
- $3\text{ kg } 517\text{g}$
 $(\because 3\text{kg} = 3 \times 1000\text{g})$
 $= 3000\text{g} = 3000\text{g} + 517\text{g} = 3517\text{g}$
- $7\text{kg } 40\text{g}$
 $(\because 7\text{kg} = 7 \times 1000\text{g})$
 $= 7000\text{g} = 7000\text{g} + 40\text{g} = 7040\text{g}$

2. Convert the following into 'kg' and 'g' :

- $8590\text{g} = 8000\text{g} + 590\text{g}$
 $(\because 1000\text{g} = 1\text{ kg}) = 8\text{kg } 590\text{g}$
- $4360\text{g} = 4000\text{g} + 360\text{g}$
 $(\because 1000\text{g} = 1\text{ kg}) = 4\text{kg } 360\text{g}$
- $5640\text{g} = 5000\text{g} + 640\text{g}$

- $(\because 1000\text{g} = 1\text{kg}) = 5\text{kg } 640\text{g}$
- $4800\text{g} = 4000\text{g} + 800\text{g}$
 $(\because 1000\text{g} = 1\text{kg}) = 4\text{kg } 800\text{g}$
- $1780\text{g} = 1000\text{g} + 780$
 $(\because 1000\text{g} = 1\text{kg}) = 1\text{kg } 780\text{g}$
- $2222\text{g} = 2000\text{g} + 222\text{g}$
 $(\because 1000\text{g} = 1\text{kg}) = 2\text{kg } 222\text{g}$
- $3009\text{g} = 3000\text{g} + 9\text{g}$
 $(\because 1000\text{g} = 1\text{kg}) = 3\text{kg } 9\text{g}$
- $1555\text{g} = 1000\text{g} + 555\text{g}$
 $(\because 1000\text{g} = 1\text{kg}) = 1\text{kg } 555\text{g}$
- $5480\text{g} = 5000\text{g} + 480\text{g}$
 $(\because 1000\text{g} = 1\text{kg}) = 5\text{kg } 480\text{g}$

3. Fill in the blanks :

- $5\text{kg} = 5 \times 1000\text{g} = 5000\text{g}$
 $(\because 1000\text{g} = 1\text{kg})$
- $9\text{kg } 350\text{g} = 9 \times 1000\text{g} + 350\text{g}$
 $= 9000\text{g} + 350\text{g} = 9350\text{g}$
- $5\text{kg } 125\text{g} = 5 \times 1000\text{g} + 125\text{g}$
 $= 5000\text{g} + 125\text{g} = 5125\text{g}$
 $(\because 1\text{kg} = 1000\text{g})$
- $5000\text{g} = 5\text{kg}$ $(\because 100\text{g} = 1\text{ kg})$
- $2000\text{g} = 2\text{ kg}$ $(\because 1000\text{g} = 1\text{kg})$
- $5\text{kg } 70\text{g} = 5 \times 1000\text{g} + 70\text{g}$
 $= 5000\text{g} + 70\text{g} = 5070\text{g}$
 $(\because 1\text{kg} = 1000\text{g})$
- $4\text{kg } 70\text{g} = 4 \times 1000\text{g} + 70\text{g}$
 $= 4000\text{g} + 70\text{g} = 4070\text{g}$
 $(\because 1\text{kg} = 1000\text{g})$
- $5740\text{g} = 5000\text{g} + 740\text{g} = 5\text{kg } 740\text{g}$
 $(\because 1000\text{g} = 1\text{kg})$

Exercise Time - 10.7

1. Add the following with conversion :

- $5\text{kg } 270\text{g} = 5 \times 1000\text{g} + 270\text{g}$
 $(\because 1000\text{g} = 1\text{kg})$
 $= 5000\text{g} + 270\text{g} = 5270\text{g}$
 $3\text{kg } 515\text{g} = 3 \times 1000\text{g} + 515\text{g}$
 $(\because 1000\text{g} = 1\text{kg})$
 $= 3000\text{g} + 515\text{g} = 3515\text{g}$

Now Add:

$$\begin{array}{r}
 5\ 2\ 7\ 0\ \text{g} \\
 + 3\ 5\ 1\ 5\ \text{g} \\
 \hline
 8\ 7\ 8\ 5\ \text{g}
 \end{array}$$

Thus, $5\text{kg } 270\text{g} + 3\text{kg } 515\text{g} = 8\text{kg } 785\text{g}$

(b) $5\text{kg } 185\text{g} = 5 \times 1000\text{g} + 185\text{g}$

($1000\text{g} = 1\text{kg}$)

$= 5000\text{g} + 185\text{g} = 5185\text{g}$

$4\text{kg } 300\text{g} = 4 \times 1000\text{g} + 300\text{g}$

$= 4000\text{g} + 300\text{g} = 4300\text{g}$

Now Add:

$$\begin{array}{r} 5 \ 1 \ 8 \ 5 \ \text{g} \\ + 4 \ 3 \ 0 \ 0 \ \text{g} \\ \hline 9 \ 4 \ 8 \ 5 \ \text{g} \end{array}$$

Thus, $5\text{kg } 185\text{g} + 4\text{kg } 300\text{g} = 9\text{kg } 485\text{g}$

(c) $6\text{kg } 80\text{g} = 6 \times 1000\text{g} + 80\text{g}$

($1\text{kg} = 1000\text{g}$)

$= 6000\text{g} + 80\text{g} = 6080\text{g}$

$1\text{kg } 24\text{g} = 1000\text{g} + 24\text{g} = 1024\text{g}$

Now Add:

$$\begin{array}{r} \boxed{1} \\ 6 \ 0 \ 8 \ 0 \ \text{g} \\ + 1 \ 0 \ 2 \ 4 \ \text{g} \\ \hline 7 \ 1 \ 0 \ 4 \ \text{g} \end{array}$$

Thus, $6\text{kg } 80\text{g} + 1\text{kg } 24\text{g} = 7\text{kg } 104\text{g}$

(d) $5\text{kg } 460\text{g} = 5 \times 1000\text{g} + 460\text{g}$

$= 5000\text{g} + 460\text{g}$

($\therefore 1\text{kg} = 1000\text{g}$) 5460g

$3\text{kg } 320\text{g} = 3 \times 1000\text{g} + 320\text{g}$

$= 3000\text{g} + 320\text{g} = 3320\text{g}$

Now Add:

$$\begin{array}{r} 5 \ 4 \ 6 \ 0 \ \text{g} \\ + 3 \ 3 \ 2 \ 0 \ \text{g} \\ \hline 8 \ 7 \ 8 \ 0 \ \text{g} \end{array}$$

Thus, $5\text{kg } 460\text{g} + 3\text{kg } 320\text{g} = 8\text{kg } 780\text{g}$

(e) $3\text{kg } 370\text{g} = 3 \times 1000\text{g} + 370\text{g}$

($\therefore 1\text{kg} = 1000\text{g}$)

$= 3000\text{g} + 370\text{g} = 3370\text{g}$

$4\text{kg } 255\text{g} = 4 \times 1000\text{g} + 255\text{g}$

$= 4000\text{g} + 255\text{g} = 4255\text{g}$

Now Add:

$$\begin{array}{r} 3 \ 3 \ 7 \ 0 \ \text{g} \\ + 4 \ 2 \ 5 \ 5 \ \text{g} \\ \hline 5 \ 6 \ 2 \ 5 \ \text{g} \end{array}$$

Thus, $3\text{kg } 370\text{g} + 4\text{kg } 255\text{g}$

$= 5\text{kg } 625\text{g}$

(f) $8\text{kg } 400\text{g} = 8 \times 1000\text{g} + 400\text{g}$

($\therefore 1\text{kg} = 1000\text{g}$)

$= 8000\text{g} + 400\text{g} = 8400\text{g}$

$3\text{kg } 200\text{g} = 3 \times 1000\text{g} + 200\text{g}$

$= 3000\text{g} + 200\text{g} = 3200\text{g}$

Now Add:

$$\begin{array}{r} 8 \ 4 \ 0 \ 0 \\ + 3 \ 2 \ 0 \ 0 \\ \hline 1 \ 1 \ 6 \ 0 \ 0 \end{array}$$

Thus, $8\text{kg } 400\text{g} + 3\text{kg } 200\text{g} = 11\text{kg } 600\text{g}$

2. Add the following without conversion :

(a) $\text{kg} \quad \text{m}$

$5 \ 1 \ 6 \ 3$

$+ 4 \ 4 \ 2 \ 4$

$\hline 9 \ 5 \ 8 \ 7$

Thus, $5\text{kg } 163\text{g} + 4\text{kg } 424\text{g} = 9\text{kg } 587\text{g}$

(b) $\text{kg} \quad \text{m}$

$2 \ 0 \ 2 \ 0$

$+ 3 \ 5 \ 1 \ 6$

$\hline 5 \ 5 \ 3 \ 6$

Thus, $2\text{kg } 020\text{g} + 3\text{kg } 516\text{g} = 5\text{kg } 536\text{g}$

(c) $\text{km} \quad \text{g}$

$\boxed{1}$

$2 \ 2 \ 6 \ 5$

$+ 7 \ 4 \ 4 \ 0$

$\hline 9 \ 7 \ 0 \ 5$

Thus, $2\text{kg } 265\text{g} + 7\text{kg } 440\text{g} = 9\text{kg } 705\text{g}$

(d) $\text{kg} \quad \text{g}$

$6 \ 3 \ 0 \ 0$

$+ 8 \ 2 \ 0 \ 0$

$\hline 1 \ 4 \ 5 \ 0 \ 0$

Thus, $6\text{kg } 300\text{g} + 8\text{kg } 200\text{g} = 14\text{kg } 500\text{g}$

(e) $\text{kg} \quad \text{g}$

$4 \ 2 \ 5 \ 4$

$+ 1 \ 1 \ 5 \ 7$

$\hline 5 \ 4 \ 1 \ 1$

Thus, $4\text{kg } 254\text{g} + 1\text{kg } 157\text{g} = 5\text{kg } 411\text{g}$

(f) $\text{kg} \quad \text{g}$

$7 \ 2 \ 4 \ 5$

$+ 7 \ 2 \ 4 \ 4$

$\hline 1 \ 4 \ 4 \ 8 \ 9$

Thus, $7\text{kg } 245\text{g} + 7\text{kg } 244\text{g}$

$$\begin{array}{r}
 =14\text{kg}489\text{g} \\
 \text{(g)} \quad \begin{array}{r} \text{km} \quad \text{g} \\ 5 \quad 2 \quad 2 \quad 9 \\ 4 \quad 1 \quad 5 \quad 5 \\ + 1 \quad 1 \quad 6 \quad 3 \\ \hline 1 \quad 0 \quad 5 \quad 4 \quad 7 \end{array}
 \end{array}$$

Thus, $5\text{kg}229\text{g} + 4\text{kg}155\text{g}$
 $= 1\text{kg}163\text{g} = 10\text{kg}547\text{g}$

$$\begin{array}{r}
 \text{(h)} \quad \begin{array}{r} \text{km} \quad \text{g} \\ 2 \quad 3 \quad 0 \quad 0 \\ 3 \quad 0 \quad 7 \quad 0 \\ + 4 \quad 0 \quad 0 \quad 0 \\ \hline 9 \quad 3 \quad 7 \quad 0 \end{array}
 \end{array}$$

Thus, $2\text{kg}300\text{g} + 3\text{kg}070\text{g} + 4\text{kg}$
 $= 9\text{kg}370\text{g}$

$$\begin{array}{r}
 \text{(i)} \quad \begin{array}{r} \text{km} \quad \text{g} \\ 1 \quad 5 \quad 0 \quad 0 \\ 9 \quad 6 \quad 0 \quad 0 \\ + 2 \quad 4 \quad 3 \quad 0 \\ \hline 1 \quad 2 \quad 5 \quad 3 \quad 0 \end{array}
 \end{array}$$

Thus, $500\text{g} + 9\text{kg}600\text{g} + 2\text{kg}430\text{g}$
 $= 12\text{kg}530\text{g}$

3. Subtract the following with conversion :

- (a) $2\text{kg}500\text{g} = 2 \times 1000\text{g} + 500\text{g}$
 $= 2000\text{g} + 500\text{g} = 2500\text{g}$
 $4\text{kg}790\text{g} = 4 \times 1000\text{g} + 790\text{g}$
 $= 4000\text{g} + 790\text{g} = 4790\text{g}$

Now, subtract 4790g

$$\begin{array}{r}
 4 \quad 7 \quad 9 \quad 0 \quad \text{g} \\
 - 2 \quad 5 \quad 0 \quad 0 \quad \text{g} \\
 \hline
 2 \quad 2 \quad 9 \quad 0 \quad \text{g}
 \end{array}$$

Thus, $4\text{kg}790\text{g} - 2\text{kg}500\text{g}$
 $= 2\text{kg}290\text{g}$

- (b) $9\text{kg}78\text{g} = 9 \times 1000\text{g} + 78\text{g}$
 $9000\text{g} + 78\text{g} = 9078\text{g}$
 $2\text{kg}40\text{g} = 2 \times 1000\text{g} + 40\text{g}$
 $= 2000\text{g} + 40\text{g} = 2040\text{g}$

Now subtract,

$$\begin{array}{r}
 9 \quad 0 \quad 7 \quad 8 \quad \text{g} \\
 - 2 \quad 0 \quad 4 \quad 0 \quad \text{g} \\
 \hline
 7 \quad 0 \quad 3 \quad 8 \quad \text{g}
 \end{array}$$

Thus, $9\text{kg}78\text{g} - 2\text{kg}40\text{g}$
 $= 7\text{kg}038\text{g}$

- (c) $5\text{kg}560\text{g} = 5 \times 1000\text{g} + 560\text{g}$
 $= 5000\text{g} + 560\text{g} = 5560\text{g}$
 $4\text{kg}150\text{g} = 4 \times 1000\text{g} + 150\text{g}$
 $= 4000\text{g} + 150\text{g} = 4150\text{g}$

$$\begin{array}{r}
 5 \quad 5 \quad 6 \quad 0 \quad \text{g} \\
 - 4 \quad 1 \quad 5 \quad 0 \quad \text{g} \\
 \hline
 1 \quad 4 \quad 1 \quad 0 \quad \text{g}
 \end{array}$$

Thus, $5\text{kg}560\text{g} - 4\text{kg}150\text{g}$
 $= 1\text{kg}410\text{g}$

- (d) $6\text{kg}738\text{g} = 6 \times 1000\text{g} + 738\text{g}$
 $6000\text{g} + 738\text{g} = 6738\text{g}$
 $5\text{kg}232\text{g} = 5 \times 1000\text{g} + 232\text{g}$
 $= 5000\text{g} + 332\text{g} = 5332\text{g}$

Now,

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

Thus, $6\text{kg}738\text{g} - 5\text{kg}332\text{g} = 1\text{kg}406\text{g}$

- (e) $7\text{kg}478\text{g} = 7 \times 1000\text{g} + 478\text{g} = 7000\text{g} + 478\text{g} = 7478\text{g}$
 $3\text{kg}265\text{g} = 3 \times 1000\text{g} + 265\text{g} = 3000\text{g} + 265\text{g} = 3265\text{g}$

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

Thus, $7\text{kg}478\text{g} - 3\text{kg}265\text{g} = 4\text{kg}213\text{g}$

- (f) $6\text{kg}360\text{g} = 6 \times 100\text{g} + 360\text{g}$
 $= 6000\text{g} + 360\text{g} = 6360\text{g}$
 $5\text{kg}240\text{g} = 5 \times 1000\text{g} + 240\text{g}$
 $5000\text{g} + 240\text{g} = 5240\text{g}$

$$\begin{array}{r}
 6 \quad 3 \quad 6 \quad 0 \quad \text{g} \\
 - 5 \quad 2 \quad 4 \quad 0 \quad \text{g} \\
 \hline
 1 \quad 1 \quad 2 \quad 0 \quad \text{g}
 \end{array}$$

Thus, $6\text{kg}360\text{g} - 5\text{kg}240\text{g}$

$$= 1\text{kg}120\text{g}$$

$$(g) \quad 35\text{kg}629\text{g} = 35 \times 1000\text{g} + 629\text{g}$$

$$= 35000\text{g} + 329\text{g} = 35629\text{g}$$

$$16\text{kg}578\text{g} = 16 \times 1000\text{g} + 578\text{g}$$

$$= 16000\text{g} + 578\text{g} = 16578\text{g}$$

$$\begin{array}{r} \boxed{2}\boxed{15}\boxed{5}\boxed{12} \\ \cancel{3} \cancel{5} \cancel{6} \cancel{2} \text{ 9 g} \\ - 1 \ 6 \ 5 \ 7 \ 8 \ \text{g} \\ \hline 1 \ 9 \ 0 \ 5 \ 1 \ \text{g} \end{array}$$

$$\text{Thus, } 35\text{kg } 629\text{g} - 16\text{kg}578\text{g} = 19\text{kg } 0.51\text{g}$$

$$(h) \quad 34\text{kg } 24\text{g} = 34 \times 1000\text{g} + 24\text{g}$$

$$= 34000\text{g} + 24\text{g} = 34024\text{g}$$

$$18\text{kg} = 18 \times 1000\text{g} = 18000\text{g}$$

$$\begin{array}{r} \boxed{2}\boxed{14} \\ \cancel{3} \cancel{4} \cancel{0} \cancel{2} \text{ 4 g} \\ - 1 \ 8 \ 0 \ 0 \ 0 \ \text{g} \\ \hline 1 \ 6 \ 0 \ 2 \ 4 \ \text{g} \end{array}$$

Thus, $34 \text{ kg } 24\text{g} - 18\text{g} = 16\text{kg}024\text{g}$

4. Subtract the following without conversion :

$$(a) \quad \begin{array}{r} \text{km} \quad \text{g} \\ \boxed{0} \ \boxed{0}\boxed{6}\boxed{14} \\ 7 \ \cancel{5} \cancel{4} \cancel{ } \\ - 3 \ 2 \ 1 \ 9 \\ \hline 4 \ 3 \ 5 \ 5 \end{array}$$

$$\text{Thus, } 7\text{kg } 574\text{g} - 3\text{kg } 219\text{g} = 4\text{kg } 355\text{g}$$

$$(b) \quad \begin{array}{r} \text{kg} \quad \text{g} \\ \boxed{2}\boxed{12} \ \boxed{8}\boxed{12} \\ \cancel{3} \cancel{8} \ \cancel{9} \cancel{2} \ 5 \\ - 1 \ 9 \ 7 \ 4 \ 4 \\ \hline 1 \ 9 \ 1 \ 8 \ 1 \end{array}$$

$$\text{Thus, } 38\text{kg } 925\text{g} - 19\text{kg } 744\text{g} = 19\text{kg } 181\text{g}$$

$$(c) \quad \begin{array}{r} \text{kg} \quad \text{g} \\ \boxed{7} \ \boxed{14}\boxed{16}\boxed{15} \\ 8 \ \cancel{8} \ \cancel{5} \cancel{7} \cancel{ } \\ - 3 \ 3 \ 6 \ 8 \ 9 \\ \hline 5 \ 4 \ 8 \ 8 \ 6 \end{array}$$

$$\text{Thus, } 88\text{kg}575\text{g} - 33\text{kg } 689\text{g}$$

$$= 54\text{kg } 886\text{g}$$

$$(d) \quad \begin{array}{r} \text{kg} \quad \text{g} \\ \boxed{1}\boxed{12} \\ \cancel{2} \cancel{ } \ 3 \ 4 \ 2 \\ - 1 \ 8 \ 2 \ 1 \ 2 \\ \hline 0 \ 4 \ 1 \ 3 \ 0 \end{array}$$

$$\text{Thus, } 22\text{kg}342\text{g} - 18\text{kg } 212\text{g} = 4\text{kg } 130\text{g}$$

$$(e) \quad \begin{array}{r} \text{kg} \quad \text{g} \\ \boxed{6} \ \boxed{11} \\ 7 \ \cancel{ } \ \cancel{ } \ 6 \ 4 \\ - 2 \ 3 \ 2 \ 4 \ 4 \\ \hline 5 \ 3 \ 9 \ 2 \ 0 \end{array}$$

$$\text{Thus, } 77\text{kg}164\text{g} - 23\text{kg } 244\text{g} = 53\text{kg } 920\text{g}$$

$$(f) \quad \begin{array}{r} \text{kg} \quad \text{g} \\ \boxed{7}\boxed{14} \\ 4 \ 7 \ 3 \ \cancel{8} \cancel{ } \\ - 3 \ 5 \ 1 \ 1 \ 5 \\ \hline 1 \ 2 \ 2 \ 6 \ 9 \end{array}$$

$$\text{Thus, } 47\text{kg}384\text{g} - 35\text{kg } 269\text{g} = 12\text{kg } 269\text{g}$$

$$(g) \quad \begin{array}{r} \text{kg} \quad \text{g} \\ \boxed{0} \ \boxed{7}\boxed{10}\boxed{15} \\ \cancel{9} \ \cancel{8} \cancel{1} \cancel{5} \\ - 5 \ 2 \ 3 \ 8 \\ \hline 4 \ 5 \ 7 \ 6 \end{array}$$

$$\text{Thus, } 9\text{kg}815\text{g} - 5\text{kg } 238\text{g} = 4\text{kg } 576\text{g}$$

$$(h) \quad \begin{array}{r} \text{kg} \quad \text{g} \\ \boxed{3} \ \boxed{15}\boxed{1}\boxed{10} \\ \cancel{4} \ \cancel{5} \cancel{2} \cancel{0} \\ - 3 \ 7 \ 1 \ 8 \\ \hline 0 \ 8 \ 0 \ 2 \end{array}$$

$$\text{Thus, } 4\text{kg}520\text{g} - 3\text{kg } 718\text{g} = 802\text{g}$$

$$(i) \quad \begin{array}{r} \text{kg} \quad \text{g} \\ \boxed{5}\boxed{11} \\ 5 \ 5 \ \cancel{6} \cancel{ } \\ - 1 \ 2 \ 4 \ 2 \\ \hline 4 \ 3 \ 1 \ 9 \end{array}$$

$$\text{Thus, } 5\text{kg}561\text{g} - 1\text{kg } 242\text{g} = 4\text{kg } 319\text{g}$$

Exercise Time - 10.8

1. Neena purchased, potatoes = 6kg400g

Purchased tomatoes = 8kg300g

$$\begin{array}{r} \text{kg} \quad \text{g} \\ 6 \quad 4 \quad 0 \quad 0 \\ - 8 \quad 3 \quad 0 \quad 0 \\ \hline 1 \quad 4 \quad 7 \quad 0 \quad 0 \end{array}$$

Hence, weight of the vegetables = 14kg 700g

2. Weight of sugar in shopkeeper rack = 28kg455g

$$\begin{array}{r} \text{kg} \quad \text{g} \\ 28 \quad \boxed{1} \boxed{1} \quad 5 \\ + 8 \quad 7 \quad 5 \\ \hline 36 \quad 5 \quad 3 \quad 0 \end{array}$$

He put more weight of sugar = 8kg75g

Thus, now the sugar is sack

= 36kg530g

3. The weight of girl = 38kg

Due to fever he lost the weight

= 3kg150g

So, weight is now

$$\begin{array}{r} \text{kg} \quad \text{g} \\ 38 \quad 150 \\ - 3 \quad 000 \\ \hline 35 \quad 150 \end{array}$$

Thus, 38kg 150g – 3kg = 35kg150g

4. The weight of water = 17 kg

$$\begin{array}{r} \text{kg} \quad \text{g} \\ 17 \quad \boxed{8} \boxed{10} \\ - 3 \quad 50 \\ \hline 13 \quad 50 \end{array}$$

Thus, 17kg – 3kg50g = 13kg 50g is the weight of bucket.

5. A man bought sweet = 9kg400g

He distributed among poor

= 7kg260g

$$\begin{array}{r} \text{kg} \quad \text{g} \\ \boxed{0} \quad \boxed{3} \boxed{10} \\ 9 \quad \cancel{0} \cancel{0} \cancel{0} \\ - 7 \quad 2 \quad 6 \quad 0 \\ \hline 2 \quad 1 \quad 4 \quad 0 \end{array}$$

Thus, the sweet left with him

= 2kg 140g

6. Kareena's mother bought potatoes = 4kg600g

Onions = 3kg 700g

Carrots = 2kg350g

$$\begin{array}{r} \text{kg} \quad \text{g} \\ \boxed{1} \\ 4 \quad 6 \quad 0 \quad 0 \\ 3 \quad 7 \quad 0 \quad 0 \\ + 2 \quad 3 \quad 5 \quad 0 \\ \hline 10 \quad 6 \quad 5 \quad 0 \end{array}$$

Hence, the total weight of vegetables is

= 10 kg 650g

7. The weight of Rahul = 40kg250g

Rhythm = 35kg400g

Ripul = 36kg100g

$$\begin{array}{r} \text{kg} \quad \text{g} \\ \boxed{1} \\ 40 \quad 250 \\ 35 \quad 400 \\ + 36 \quad 100 \\ \hline 111 \quad 750 \end{array}$$

Thus, the total weight = 111750

8. Weight of three packets of books

Total weight of books purchased

$$\begin{array}{r} \text{kg} \quad \text{g} \\ \boxed{2} \quad \boxed{1} \\ 9 \quad 6 \quad 8 \quad 0 \\ 7 \quad 5 \quad 4 \quad 0 \\ + 6 \quad 8 \quad 2 \quad 0 \\ \hline 24 \quad 0 \quad 4 \quad 0 \end{array}$$

9. Himani bought oranges = 14kg700g

Unripe oranges = 3kg820g

Thus, ripe oranges = 10kg80g

$$\begin{array}{r}
 \begin{array}{c} \boxed{3} \\ 1 \end{array} \text{ kg } \begin{array}{c} \boxed{16} \boxed{10} \\ \cancel{7} \cancel{0} \end{array} \text{ g} \\
 - 3 \text{ kg } 8 \text{ 2 0 g} \\
 \hline
 1 \text{ 0 kg } 8 \text{ 8 0 g}
 \end{array}$$

10. Total weight of three girls = 120kg

If two of them = 35kg 20g and 33 kg
Thus,

$$\begin{array}{r}
 \begin{array}{c} \text{kg} \quad \text{g} \\ 3 \text{ 5 } 2 \text{ 0} \\ + 3 \text{ 3} \\ \hline 6 \text{ 8 } 2 \text{ 0} \end{array}
 \end{array}$$

Hence the third girl weight = 61kg 80g

Exercise Time - 10.9

1. Multiply :

(a) $\begin{array}{r} \text{kg} \quad \text{g} \\ \begin{array}{c} \boxed{4} \\ 7 \text{ 0 } 6 \text{ 1} \\ \times 7 \\ \hline 4 \text{ 9 } 4 \text{ 2 } 7 \end{array} \end{array}$

Thus, 70kg 61 $\times 7 = 494\text{kg } 27\text{g}$

(b) $\begin{array}{r} \text{kg} \quad \text{g} \\ \begin{array}{c} \boxed{1} \\ 7 \text{ 5 } 3 \text{ 0 } 0 \\ \times 6 \\ \hline 4 \text{ 5 } 1 \text{ 8 } 0 \text{ 0} \end{array} \end{array}$

Thus, 75kg 300g $\times 6 = 451\text{kg } 800\text{g}$

(c) $\begin{array}{r} \text{kg} \quad \text{g} \\ \begin{array}{c} \boxed{1} \boxed{1} \\ 2 \text{ 3 } 5 \text{ 1 } 0 \\ \times 3 \\ \hline 7 \text{ 0 } 5 \text{ 3 } 0 \end{array} \end{array}$

Thus, 235kg 10g $\times 3 = 705\text{kg } 30\text{g}$

(d) $\begin{array}{r} \text{kg} \quad \text{g} \\ \begin{array}{c} \boxed{4} \boxed{12} \boxed{4} \\ 6 \text{ 5 } 2 \text{ 5} \\ \times 8 \\ \hline 5 \text{ 2 } 2 \text{ 0 } 0 \end{array} \end{array}$

Thus, 65kg 25 $\times 8 = 522\text{kg}$

(e)

(e) $\begin{array}{r} \text{kg} \quad \text{g} \\ \begin{array}{c} \boxed{2} \boxed{3} \\ 3 \text{ 5 } 9 \text{ 0} \\ \times 4 \\ \hline 1 \text{ 4 } 3 \text{ 6 } 0 \end{array} \end{array}$

Thus, 35kg 90g $\times 4 = 143\text{kg } 60\text{g}$

(f) $\begin{array}{r} \text{kg} \quad \text{g} \\ \begin{array}{c} \boxed{1} \boxed{1} \boxed{1} \\ 1 \text{ 1 } 5 \text{ 3 } 6 \\ \times 3 \\ \hline 3 \text{ 4 } 6 \text{ 0 } 8 \end{array} \end{array}$

Thus, 115kg 36g $\times 3 = 346\text{kg } 08\text{g}$

(g) $\begin{array}{r} \text{kg} \quad \text{g} \\ \begin{array}{c} \boxed{2} \boxed{2} \boxed{1} \\ 1 \text{ 7 } 5 \text{ 1 } 0 \\ \times 5 \\ \hline 8 \text{ 7 } 5 \text{ 5 } 0 \end{array} \end{array}$

Thus, 175kg 10g $\times 5 = 875\text{kg } 50\text{g}$

(h) $\begin{array}{r} \text{kg} \quad \text{g} \\ \begin{array}{c} \boxed{3} \boxed{1} \\ 2 \text{ 8 } 0 \text{ 4 } 0 \text{ 0} \\ \times 4 \\ \hline 1 \text{ 1 } 2 \text{ 1 } 6 \text{ 0 } 0 \end{array} \end{array}$

Thus, 280kg 400g $\times 4 = 1121\text{kg } 600\text{g}$

2. Division:

(a) $\begin{array}{r} 1 \text{ 8 } 9 \text{ 6} \\ 5 \overline{) 9 \text{ 4 } 8 \text{ 0}} \\ \underline{- 5} \downarrow \\ 4 \text{ 4} \\ \underline{- 4 \text{ 0}} \downarrow \\ 0 \text{ 4 } 8 \\ \underline{- 4 \text{ 5}} \downarrow \\ 0 \text{ 3 } 0 \\ \underline{- 3 \text{ 0}} \\ 0 \end{array}$

Thus, 9kg 480g $\div 5 = 1896\text{g}$
or 1kg 896g

(b) 7kg + 16g
 $7 \times 1000\text{g} + 16\text{g}$
 $7000\text{g} + 16\text{g} = 7016$

$$\begin{array}{r}
 1754 \\
 4 \overline{) 7016} \\
 \underline{-4} \\
 30 \\
 \underline{-28} \\
 021 \\
 \underline{-20} \\
 016 \\
 \underline{-16} \\
 0
 \end{array}$$

Thus, $7\text{kg } 16\text{g} \div 4 = 1755\text{g}$
or $1\text{kg } 754\text{g}$

- (c) $8\text{kg } 407\text{g}$
 $= 8 \times 1000\text{g} + 407\text{g}$
 $= 8000\text{g} + 407\text{g} = 8407\text{g}$

$$\begin{array}{r}
 1207 \\
 7 \overline{) 8407} \\
 \underline{-7} \\
 14 \\
 \underline{-14} \\
 007 \\
 \underline{-7} \\
 0
 \end{array}$$

Thus, $8\text{kg } 407\text{g} \div 7 = 1201\text{g}$ or $1\text{kg } 201\text{g}$

- (d) $60\text{kg } 345\text{g} = 60 \times 1000\text{g} + 345\text{g}$
 $= 60000\text{g} + 345\text{g} = 60$

$$\begin{array}{r}
 12649 \\
 5 \overline{) 60345} \\
 \underline{-5} \\
 10 \\
 \underline{-10} \\
 034 \\
 \underline{-30} \\
 045 \\
 \underline{-45} \\
 0
 \end{array}$$

Thus, $60\text{kg } 345\text{g} \div 5 = 12649$ or $12\text{kg } 649\text{g}$

- (e) $648\text{kg } 832\text{g}$
 $= 648 \times 1000\text{g} + 832\text{g}$
 $= 648000\text{g} + 832\text{g} = 848832\text{g}$

$$\begin{array}{r}
 8114 \\
 8 \overline{) 648832} \\
 \underline{-64} \\
 008 \\
 \underline{-8} \\
 08 \\
 \underline{-8} \\
 32 \\
 \underline{-32} \\
 0
 \end{array}$$

Thus, $648\text{kg } 832 \div 8 = 8114$ or $8\text{kg } 114\text{g}$

- (f) $646\text{kg } 36\text{g}$
 $= 646 \times 1000\text{g} + 36\text{g}$
 $= 646000\text{g} + 36\text{g} = 646036\text{g}$

$$\begin{array}{r}
 14159 \\
 4 \overline{) 646036} \\
 \underline{-4} \\
 24 \\
 \underline{-24} \\
 006 \\
 \underline{-4} \\
 20 \\
 \underline{-20} \\
 036 \\
 \underline{-36} \\
 0
 \end{array}$$

Thus, $646\text{kg } 36\text{g} \div 4 = 14159\text{g}$ or $14\text{kg } 159\text{g}$

- (g) $427\text{kg } 735\text{g}$
 $= 427 \times 1000\text{g} + 735\text{g}$
 $= 427000\text{g} + 735\text{g} = 427735\text{g}$

$$\begin{array}{r}
 6115 \\
 7 \overline{) 427735} \\
 \underline{-42} \\
 007 \\
 \underline{-7} \\
 07 \\
 \underline{-7} \\
 035 \\
 \underline{-35} \\
 0
 \end{array}$$

Thus, $427\text{kg } 735\text{g} \div 7$

$= 6115\text{g}$ or $6\text{kg } 115\text{g}$

(h) $9\text{kg } 205\text{g}$

$= 9 \times 1000\text{g} + 205\text{g}$

$= 9000\text{g} + 205\text{g} = 9205\text{g}$

$$\begin{array}{r} 18041 \\ 5 \overline{) 9205} \\ \underline{-5} \\ 42 \\ \underline{-40} \\ 020 \\ \underline{-20} \\ 005 \\ \underline{-5} \\ 0 \end{array}$$

Thus, $9\text{kg}205\text{g} \div 5$

$= 180419$ or $18\text{kg } 041\text{g}$

(i) $4\text{kg } 684\text{g}$

$= 4 \times 1000\text{g} + 684\text{g}$

$= 4000\text{g} + 684\text{g} = 4684\text{g}$

$$\begin{array}{r} 1171 \\ 4 \overline{) 4684} \\ \underline{-4} \\ 06 \\ \underline{-4} \\ 28 \\ \underline{-28} \\ 04 \\ \underline{-4} \\ 0 \end{array}$$

Thus, $4\text{kg}684\text{g} \div 4$

$= 1171\text{g}$ or $1\text{kg } 171\text{g}$

Exercise Time - 10.10

1. The weight of a packet of rice = $2\text{kg } 500\text{g}$

$$\begin{array}{r} \text{kg} \quad \text{g} \\ \boxed{2} \quad 500 \\ \times 8 \\ \hline 20000 \end{array}$$

Thus, the weight of 8 such packets is

$2\text{kg}500\text{g} \times 8 = 20\text{kg}$

2. The daily consumption of rice of a family = $3\text{kg } 750\text{g}$

$$\begin{array}{r} \boxed{3} \quad \boxed{750} \\ 3 \quad 750 \\ \times 7 \\ \hline 26 \quad 250 \end{array}$$

Thus, $3\text{kg}750\text{g} \times 7 = 26\text{kg } 250\text{g}$

3. Weight of a packet of toffees = $1\text{kg } 750\text{g}$

$$\begin{array}{r} \text{kg} \quad \text{g} \\ \boxed{1} \quad \boxed{750} \\ 1 \quad 750 \\ \times 6 \\ \hline 10 \quad 500 \end{array}$$

Thus, the weight of 6 such a packets =

$1\text{kg}750\text{g} \times 6 = 10\text{kg}500\text{g}$

4. Nuts equally distributed among 5 people = $35\text{kg } 450\text{g}$

$$\begin{array}{r} 7090 \\ 5 \overline{) 35450} \\ \underline{-35} \\ 045 \\ \underline{-45} \\ 00 \end{array}$$

Thus, each person get the nuts = $35\text{kg } 450\text{g}$

Hence, $35\text{kg}450\text{g} \div 5$

$= 7090\text{g}$ or $7\text{kg } 090\text{g}$

5. Sugar packed in 5 packets = $25\text{kg } 200\text{g}$

Each packet sugar packed.

$$\begin{array}{r} 25200 \\ 5 \overline{) 25200} \\ \underline{-25} \\ 020 \\ \underline{-20} \\ 00 \end{array}$$

Hence, $25\text{kg } 200\text{g} \div 5$

$= 5040\text{g}$ or $5\text{kg } 040\text{g}$

6. The weight of 6 note-books = 18kg 63g

So, the weight of 1 notebooks

$$= 18\text{kg}63\text{g} \div 6$$

$$= 18 \times 1000\text{g} + 63\text{g} \div 6$$

$$= 18000\text{g} + 63\text{g} \div 6 = 18063\text{g} \div 6$$

$$\begin{array}{r} 3005 \\ 6 \overline{) 18063} \\ \underline{- 18} \\ 06 \\ \underline{- 6} \\ 030 \\ \underline{- 30} \\ 0 \end{array}$$

Hence, $18\text{kg}. 63\text{g} \div 6 = 3105\text{g}$ or $3\text{kg} 105\text{g}$

Exercise Time - 10.11

1. Convert the following into 'ml' :

(a) $4\text{l} = 4 \times 1000\text{ml}$ ($1\text{l} = 1000\text{ml}$)

$$= \mathbf{4000\text{ml}}$$

(b) $9\text{l} = 9 \times 1000\text{ml} = \mathbf{9000\text{ml}}$

(c) $7\text{l} = 7 \times 1000\text{ml} = \mathbf{7000\text{ml}}$

(d) $4\text{l} 350\text{ml}$

$$= 4 \times 1000\text{ml} + 350\text{ml}$$

$$= 4000\text{ml} + 350\text{ml} = \mathbf{4350\text{ml}}$$

(e) $5\text{l} 607\text{ml}$

$$= 5 \times 1000\text{ml} + 607\text{ml}$$

$$= 5000\text{ml} + 607\text{ml} = \mathbf{5607\text{ml}}$$

(f) $2\text{l} 30\text{ml}$

$$= 2 \times 1000\text{ml} + 30\text{ml}$$

$$= 2000\text{ml} + 30\text{ml} = \mathbf{2030\text{ml}}$$

(g) $5\text{l} 507\text{ml}$

$$= 5 \times 1000\text{ml} + 507\text{ml}$$

$$= 5000\text{ml} + 507\text{ml} = \mathbf{5507\text{ml}}$$

(h) $6\text{l} 5\text{ml}$

$$= 6 \times 1000\text{ml} + 5\text{ml}$$

$$= 6000\text{ml} + 5\text{ml} = \mathbf{6005\text{ml}}$$

(i) $7\text{l} 3\text{ml}$

$$= 7 \times 1000\text{ml} + 3\text{ml}$$

$$= 7000\text{ml} + 3\text{ml} = \mathbf{7003\text{ml}}$$

2. Convert the following into 'l' and 'ml' :

($1\text{l} = 1000\text{ml}$)

(a) $4000\text{ml} = 4\text{l}$

(b) $3500\text{ml} = 3000\text{ml} + 500\text{ml}$

$$= \mathbf{3\text{l} 500\text{ml}}$$

(c) $3657\text{ml} = 3000\text{ml} + 657\text{ml}$

$$= \mathbf{3\text{l} 657\text{ml}}$$

(d) $4068\text{ml} = 4000\text{ml} + 68\text{ml}$

$$= \mathbf{4\text{l} 68\text{ml}}$$

(e) $1370\text{ml} = 1000\text{ml} + 370\text{ml}$

$$= \mathbf{1\text{l} 370\text{ml}}$$

(f) $6007\text{ml} = 6000\text{ml} + 7\text{ml} = \mathbf{6\text{l} 7\text{ml}}$

(g) $9708\text{ml} = 9000\text{ml} + 708\text{ml}$

$$= \mathbf{9\text{l} 708\text{ml}}$$

(h) $6070\text{ml} = 6000 + 70\text{ml} = \mathbf{6\text{l} 70\text{ml}}$

(i) $2014\text{ml} = 2000 + 14\text{ml} = \mathbf{2\text{l} 14\text{ml}}$

3. Fill in the blanks :

(a) $2175\text{ml} = 2000\text{ml} + 175\text{ml}$

$$= \mathbf{2\text{l} 175\text{ml}}$$

(b) $2609\text{ml} = 2000\text{ml} + 609\text{ml}$

$$= \mathbf{2\text{l} 609\text{ml}}$$

(c) $34\text{l} = 34 \times 1000\text{ml}$ ($1\text{l} = 1000\text{ml}$)

$$= \mathbf{34000\text{ml}}$$

(d) $16\text{l} 24\text{ml} = 16 \times 1000\text{ml} + 24\text{l}$

$$= 16000\text{ml} + 24\text{ml} = \mathbf{16024\text{ml}}$$

(e) $6\text{l} 24\text{ml} = 6 \times 1000\text{ml} + 24\text{ml}$

$$= 6000\text{ml} + 24\text{ml} = \mathbf{6024\text{ml}}$$

(f) $8007\text{ml} = 8000\text{ml} + 7\text{ml} = \mathbf{8\text{l} 7\text{ml}}$

(g) $500\text{ml} = \mathbf{5\text{l}}$

(h) $2009\text{ml} = 2000\text{ml} + 9\text{ml} = \mathbf{2\text{l} 9\text{ml}}$

Exercise Time - 10.12

1. Add the following with conversion ($1\text{l} = 1000\text{ml}$)

(a) $7\text{l} 225\text{ml} + 7 \times 1000\text{ml} + 225\text{ml}$

$$\begin{array}{r} \text{Now add:} \quad 7\ 2\ 2\ 5\ \text{ml} \\ + 3\ 5\ 3\ 0\ \text{ml} \\ \hline 1\ 0\ 7\ 5\ 5\ \text{ml} \end{array}$$

$$= 7000\text{l} + 225\text{ml} = 7225\text{ml}$$

$$3\text{l} 530\text{ml} = 3 \times 1000\text{ml} + 530\text{ml}$$

$$= 3000\text{ml} + 530\text{ml}$$

$$= \mathbf{3530\text{ml}}$$

$$\text{Hence, } 7\text{l} 225\text{ml} + 3\text{l} 530\text{ml}$$

$$= 10755\text{ml} \text{ or } \mathbf{10\text{l} 755\text{ml}}$$

(b) $14\text{l} 280\text{ml} = 14 \times 1000\text{ml} + 280\text{ml}$

Now add:

$$\begin{array}{r} \boxed{1} \quad \boxed{1} \\ 1 \ 4 \ 2 \ 8 \ 0 \ \text{ml} \\ + \quad 9 \ 2 \ 3 \ 4 \ \text{ml} \\ \hline 2 \ 3 \ 5 \ 1 \ 4 \ \text{ml} \end{array}$$

$$= 14000\text{ml} + 280\text{ml} = 14280\text{ml}$$

$$91234\text{ml} = 9 \times 1000\text{ml} + 234 \ \text{ml}$$

$$= 9000\text{ml} + 234\text{ml} = \mathbf{9234\text{ml}}$$

$$\text{Hence, } 141280\text{ml} + 91234\text{ml} = 23514\text{ml or } 231514\text{ml}$$

(c) $16189 \ \text{ml} = 16 \times 1000\text{ml} + 89\text{ml}$

Now add:

$$\begin{array}{r} \boxed{1} \quad \boxed{1} \\ 1 \ 6 \ 0 \ 8 \ 9 \ \text{ml} \\ + \quad 3 \ 6 \ 2 \ 0 \ 8 \ \text{ml} \\ \hline 5 \ 2 \ 2 \ 9 \ 7 \ \text{ml} \end{array}$$

$$= 16000\text{ml} + 89\text{ml} = \mathbf{16089\text{ml}}$$

$$= 361208\text{ml} = 36 \times 1000\text{ml} + 208\text{ml}$$

$$= 36000\text{ml} + 208\text{ml} = \mathbf{36208 \ \text{ml}}$$

$$\text{Hence, } 16189\text{ml} + 361208\text{ml} = 52297\text{ml or } 521297\text{ml}$$

(d) $89115\text{ml} = 89 \times 1000\text{ml} + 15\text{ml}$

Now add:

$$\begin{array}{r} \boxed{1} \\ 8 \ 9 \ 0 \ 1 \ 5 \ \text{ml} \\ + \quad 5 \ 1 \ 0 \ 5 \ 0 \ 9 \ \text{ml} \\ \hline 5 \ 9 \ 9 \ 5 \ 2 \ 4 \ \text{ml} \end{array}$$

$$= 89000\text{ml} + 15\text{ml} = \mathbf{89015\text{ml}}$$

$$= 5101509\text{ml} = 510 \times 1000\text{ml} + 509\text{ml}$$

$$= 510000\text{ml} + 509 = \mathbf{510509\text{ml}}$$

$$\text{Hence, } 89115\text{ml} + 5101509\text{ml} = 599524\text{ml or } = 591952\text{ml}$$

(e) $5150\text{ml} = 5 \times 1000\text{ml} + 50\text{ml}$

Now add:

$$\begin{array}{r} \boxed{1} \boxed{0} \boxed{1} \\ 5 \ 0 \ 5 \ 0 \ \text{ml} \\ 6 \ 0 \ 8 \ 0 \ \text{ml} \\ + \quad 1 \ 3 \ 5 \ 0 \ 0 \ \text{ml} \\ \hline 2 \ 4 \ 6 \ 3 \ 0 \ \text{ml} \end{array}$$

$$= 5000\text{ml} + 50\text{ml} = \mathbf{5050\text{ml}}$$

$$= 6180\text{ml} = 6 \times 1000\text{ml} + 80\text{ml}$$

$$= 6000\text{ml} + 80\text{ml} = \mathbf{6080\text{ml}}$$

$$= 131500\text{ml}$$

$$= 13 \times 1000\text{ml} + 500\text{ml}$$

$$= 13000\text{ml} + 500\text{ml} = \mathbf{13500\text{ml}}$$

$$\text{Thus, } 5150\text{ml} + 6180\text{ml} + 131500\text{ml}$$

$$= 24630\text{ml or } 241630\text{ml}$$

(f) $917 \ \text{ml} = 9 \times 1000\text{ml} + 7 \ \text{ml}$

Now add:

$$\begin{array}{r} \boxed{1} \quad \boxed{1} \boxed{1} \\ 9 \ 0 \ 0 \ 7 \ \text{ml} \\ 6 \ 0 \ 5 \ 5 \ \text{ml} \\ + \quad 8 \ 4 \ 3 \ \text{ml} \\ \hline 1 \ 5 \ 9 \ 0 \ 5 \ \text{ml} \end{array}$$

$$= 9000\text{ml} + 7\text{ml} = 9007\text{ml}$$

$$= 655\text{ml} = 6 \times 1000\text{ml} + 55 \ \text{ml}$$

$$= 6000 \ \text{ml} + 55 \ \text{ml}$$

$$\text{Hence } 917\text{ml} + 6155\text{ml} + 843\text{ml} = 151905 \ \text{ml}$$

2. Add the following without conversion :

(a)

$$\begin{array}{r} \text{l} \quad \text{ml} \\ \quad \boxed{4} \\ 3 \ 2 \ 1 \ 8 \\ + \quad 4 \ 6 \ 2 \ 6 \\ \hline 7 \ 8 \ 4 \ 4 \end{array}$$

$$\text{Thus, } 31218\text{ml} + 41626\text{ml} = 71844\text{ml}$$

(b)

$$\begin{array}{r} \text{l} \quad \text{ml} \\ \boxed{1} \quad \boxed{1} \\ 5 \ 7 \quad 2 \ 1 \ 9 \\ + \quad 4 \ 3 \quad 5 \ 1 \ 7 \\ \hline 1 \ 0 \ 0 \quad 7 \ 3 \ 6 \end{array}$$

$$\text{Thus, } 571219\text{ml} + 431517\text{ml} = 1001736\text{ml}$$

(c)

$$\begin{array}{r} \text{l} \quad \text{ml} \\ \boxed{1} \boxed{10} \quad \boxed{1} \\ 6 \ 8 \quad 5 \ 7 \ 0 \\ + \quad 5 \ 6 \quad 0 \ 3 \ 7 \\ \hline 1 \ 2 \ 4 \quad 6 \ 0 \ 7 \end{array}$$

$$\text{Thus, } 681570\text{ml} + 561037\text{ml} = 1241607\text{ml}$$

(d)

$$\begin{array}{r} \text{l} \quad \text{ml} \\ \boxed{1} \quad \boxed{1} \\ 7 \quad 0 \ 8 \ 6 \\ - \quad 4 \quad 5 \ 3 \ 1 \\ \hline 1 \ 1 \quad 6 \ 1 \ 7 \end{array}$$

$$\text{Thus } 71086\text{ml} + 41531\text{ml}$$

$$= 11\,617\text{ml}$$

$$\begin{array}{r} \text{(e)} \quad \begin{array}{cc} l & \text{ml} \\ \boxed{1} & \boxed{1} \\ 84 & 835 \\ +13 & 746 \\ \hline 98 & 581 \end{array} \end{array}$$

$$\text{Thus, } 84\,1835\text{ml} + 13\,1746\text{ml} = 98\,1581\text{ml}$$

$$\begin{array}{r} \text{(f)} \quad \begin{array}{cc} l & \text{ml} \\ \boxed{1}\boxed{1} & \boxed{1} \\ 47 & 609 \\ +67 & 825 \\ \hline 115 & 434 \end{array} \end{array}$$

$$\text{Thus, } 47\,1609\text{ml} + 67\,1825\text{ml} = 115\,434\text{ml}$$

$$\begin{array}{r} \text{(g)} \quad \begin{array}{cc} l & \text{ml} \\ \boxed{1}\boxed{2} & \boxed{1} \\ 35 & 831 \\ 14 & 658 \\ + & 515 \\ \hline 51 & 004 \end{array} \end{array}$$

$$\text{Thus, } 35\,1831\text{ml} + 14\,1658 + 515\text{ml} = 51\,1004\text{ml}$$

$$\begin{array}{r} \text{(h)} \quad \begin{array}{cc} l & \text{ml} \\ \boxed{1}\boxed{1} & \boxed{1}\boxed{1} \\ 31 & 815 \\ 19 & 687 \\ + & 183 \\ \hline 51 & 685 \end{array} \end{array}$$

$$\text{Thus, } 31\,1815\text{ml} + 91\,1687\text{ml} + 183\text{ml} = 51\,1685\text{ml}$$

$$\begin{array}{r} \text{(i)} \quad \begin{array}{cc} l & \text{ml} \\ \boxed{1}\boxed{1} & \boxed{1} \\ 26 & 006 \\ 7 & 705 \\ + & 915 \\ \hline 34 & 626 \end{array} \end{array}$$

$$\text{Thus, } 26\,16\text{ml} + 7\,1705\text{ml} + 915\text{ml} = 34\,626\text{ml}$$

3. Subtract the following with conversion : ($\because 1\text{ l} = 1000\text{ ml}$)

$$\text{(a) } 81\,523\text{ml} = 8 \times 1000\text{ml} + 523\text{ml}$$

Now subtract :

$$\begin{array}{r} 1\,7693 \quad \text{ml} \\ -8523 \quad \text{ml} \\ \hline 9170 \quad \text{ml} \end{array}$$

$$= 8000\text{ml} + 523\text{ml} = 8523\text{ml}$$

$$17\,1693\text{ml} = 17 \times 1000\text{ml} + 693\text{ml}$$

$$= 17000\text{ml} + 693\text{ml} = 17693\text{ml}$$

$$\text{Thus, } 81\,523\text{ ml} - 17\,1693\text{ml} = 917\text{ml or } 9\,1170\text{ml}$$

$$\text{(b) } 51\,44\text{ml} = 5 \times 1000\text{ml} + 44\text{ml}$$

Now Subtract :

$$\begin{array}{r} 8048 \quad \text{ml} \\ -5044 \quad \text{ml} \\ \hline 3004 \quad \text{ml} \end{array}$$

$$= 5000\text{ml} + 44\text{ml} = 5044\text{ml}$$

$$81\,48\text{ml} = 8 \times 1000\text{ml} + 48\text{ml}$$

$$= 8048\text{ml}$$

$$\text{Hence, } 81\,48\text{ml} - 51\,44\text{ml} = 3004\text{ml or } 314\text{ ml}$$

$$\text{(c) } 59\,1878\text{ml} = 59 \times 1000\text{ ml} + 878\text{ml}$$

Now Subtract :

$$\begin{array}{r} 59878 \quad \text{ml} \\ -54317 \quad \text{ml} \\ \hline 05561 \quad \text{ml} \end{array}$$

$$= 59000\text{ml} + 878\text{ml} = 59878\text{ml}$$

$$54\,1317\text{ml} = 54 \times 1000\text{ml} + 317\text{ml}$$

$$= 54000\text{ml} + 317\text{ml} = 54317\text{ml}$$

$$\text{Thus, } 59\,1878\text{ml} - 54\,1317\text{ml} = 5561\text{ml or } 5\,561\text{ml}$$

$$\text{(d) } 81\,629\text{ml} = 8 \times 1000\text{ml} + 629\text{ml}$$

Now Subtract :

$$\begin{array}{r} \boxed{5}\boxed{12} \\ 8\cancel{0}29 \quad \text{ml} \\ -7036 \quad \text{ml} \\ \hline 1593 \quad \text{ml} \end{array}$$

$$= 8000\text{ml} + 629\text{ml} = 8629\text{ml}$$

$$71\,36\text{ml} = 7 \times 1000\text{ml} + 36\text{ml}$$

$$= 7000\text{ml} + 36\text{ml} = 7036\text{ml}$$

$$\text{Thus, } 81\,629\text{ml} - 71\,36\text{ml} = 1593\text{ml or } 1\,593\text{ml}$$

$$(e) 461\,917\text{ml} = 46 \times 1000\text{ml} + 917\text{ml}$$

Now Subtract :

$$\begin{array}{r} \boxed{5} \boxed{10} \boxed{17} \\ 4\,6\,\cancel{9}\,\cancel{9}\,\cancel{9}\,\text{ml} \\ -4\,3\,4\,1\,9\,\text{ml} \\ \hline 0\,3\,4\,9\,8\,\text{ml} \end{array}$$

$$= 46000\text{ml} + 917\text{ml} = 46917\text{ml}$$

$$431\,419\text{ml} = 43 \times 1000\text{ml} + 419\text{ml}$$

$$= 43000\text{ml} + 419\text{ml} = 43419\text{ml}$$

$$\text{Thus, } 461\,917\text{ml} - 431\,419\text{ml} = 3498\text{ml or } 31\,498\text{ml}$$

$$(f) 671\,845\text{ml} = 67 \times 1000\text{ml} + 845\text{ml}$$

Now Subtract :

$$\begin{array}{r} \boxed{5} \boxed{17} \boxed{7} \boxed{14} \\ \cancel{6}\,\cancel{7}\,\cancel{8}\,\cancel{4}\,5\,\text{ml} \\ -4\,9\,6\,6\,4\,\text{ml} \\ \hline 1\,8\,1\,8\,1\,\text{ml} \end{array}$$

$$= 67000\text{ml} + 845\text{ml} = 67845\text{ml}$$

$$491\,664\text{ml} = 49 \times 1000\text{ml} + 664\text{ml}$$

$$= 49000\text{ml} + 664\text{ml} = 49664\text{ml}$$

$$\text{Thus, } 671\,845\text{ml} - 491\,664\text{ml}$$

$$= 18181\text{ml or } 181\,818\text{ml}$$

$$(g) 931\,8\text{ml} = 93 \times 1000\text{ml} + 8\text{ml}$$

Now Subtract :

$$\begin{array}{r} \boxed{8} \boxed{12} \boxed{9} \boxed{9} \boxed{18} \\ \cancel{9}\,\cancel{3}\,\cancel{0}\,\cancel{0}\,8\,\text{ml} \\ -7\,4\,0\,8\,9\,\text{ml} \\ \hline 6\,8\,9\,1\,9\,\text{ml} \end{array}$$

$$= 93000\text{ml} + 8\text{ml} = 93008\text{ml}$$

$$741\,89\text{ml} = 74 \times 1000\text{ml} + 89\text{ml}$$

$$= 74000\text{ml} + 89\text{ml} = 74089\text{ml}$$

$$\text{Thus, } 931\,8\text{ml} - 741\,89\text{ml}$$

$$= 68919\text{ml or } 681\,919\text{ml}$$

$$(h) 2231\,86\text{ml} = 223 \times 1000\text{ml} + 86\text{ml}$$

Now Subtract :

$$\begin{array}{r} \boxed{1} \boxed{11} \boxed{13} \quad \boxed{7} \boxed{16} \\ \cancel{2}\,\cancel{2}\,\cancel{3}\,0\,\cancel{8}\,6\,\text{ml} \\ -1\,2\,9\,0\,7\,9\,\text{ml} \\ \hline 0\,9\,4\,0\,0\,7\,\text{ml} \end{array}$$

$$= 223000\text{ml} + 86\text{ml} = 223086\text{ml}$$

$$1291\,79\text{ml} = 129 \times 1000\text{ml} + 79\text{ml}$$

$$= 129000\text{ml} + 79\text{ml} = 129079\text{ml}$$

$$\text{Thus, } 2231\,86\text{ml} - 1291\,79\text{ml}$$

$$= 94007\text{ml}$$

$$\text{or } = 9417\text{ml}$$

4. Subtract the following without conversion :

$$(a) \begin{array}{r} \text{ l } \quad \text{ ml} \\ \boxed{1} \quad \boxed{2} \\ \cancel{8} \quad 2\,5\,0 \\ -4\,3\,0\,0 \\ \hline 3\,9\,5\,0 \end{array}$$

$$\text{Thus, } 81250\text{ml} - 41300\text{ml}$$

$$= 31\,950\text{ml}$$

$$(b) \begin{array}{r} \text{ l } \quad \text{ ml} \\ \quad \quad \boxed{7} \boxed{3} \\ 1\,7\, \cancel{8} \cancel{3} 0 \\ -1\,2\,3\,8\,0 \\ \hline 5\,4\,5\,0 \end{array}$$

$$\text{Thus, } 171\,830\text{ml} - 121\,380\text{ml}$$

$$= 51\,450\text{ml}$$

$$(c) \begin{array}{r} \text{ l } \quad \text{ ml} \\ \boxed{5} \quad \boxed{14} \\ 3\, \cancel{8} \quad \cancel{A} \,9\,0 \\ -1\,4\,9\,4\,0 \\ \hline 1\,1\,5\,5\,0 \end{array}$$

$$\text{Thus, } 361\,490\text{ml} - 141\,940\text{ml}$$

$$= 111\,550\text{ml}$$

$$(d) \begin{array}{r} \text{ l } \quad \text{ ml} \\ 3\,8\,9\,3\,6 \\ -2\,4\,7\,1\,3 \\ \hline 1\,4\,2\,2\,3 \end{array}$$

$$\text{Thus, } 381\,936\text{ml} - 241\,713\text{ml}$$

$$= 141\,223\text{ml}$$

$$(e) \begin{array}{r} \text{ l } \quad \text{ ml} \\ \boxed{3} \boxed{5} \quad \boxed{6} \boxed{10} \\ \cancel{A} \cancel{5} \quad 5\, \cancel{7} 0 \\ -2\,7\,4\,2\,5 \\ \hline 1\,8\,9\,4\,5 \end{array}$$

$$\text{Thus, } 451\,570\text{ml} - 271\,425\text{ml}$$

$$= 181\,945\text{ml}$$

$$\begin{array}{r}
 \text{l ml} \\
 \boxed{6}\boxed{17} \quad \boxed{8}\boxed{11}\boxed{13} \\
 \cancel{77} \quad \cancel{823} \\
 - 39 \quad 826 \\
 \hline
 38 \quad 097
 \end{array}$$

Thus, $771\,923\text{ml} - 391\,826\text{ml}$
 $= 381\,97\text{ml}$

$$\begin{array}{r}
 \text{l ml} \\
 \boxed{7}\boxed{11} \quad \boxed{16} \\
 \cancel{88} \quad \cancel{800} \\
 - 47 \quad 700 \\
 \hline
 34 \quad 900
 \end{array}$$

Thus, $811\,600\text{ml} - 471\,700\text{ml}$
 $= 341\,900\text{ml}$

$$\begin{array}{r}
 \text{l ml} \\
 \boxed{4}\boxed{12} \quad \boxed{10}\boxed{4} \\
 \cancel{88} \quad 0\cancel{8}0 \\
 - 48 \quad 634 \\
 \hline
 04 \quad 415
 \end{array}$$

Thus, $531\,050\text{ml} - 481\,634\text{ml}$
 $= 41\,415\text{ ml}$

$$\begin{array}{r}
 \text{l ml} \\
 \boxed{7}\boxed{16} \\
 86 \quad \cancel{860} \\
 - 63 \quad 470 \\
 \hline
 23 \quad 390
 \end{array}$$

Thus, $861\,860\text{ml} - 631\,470\text{ml}$
 $= 231\,39\text{ml}$

Exercise Time - 10.13

1. Lucky bought petrol for his car

On Friday = $151\,40\text{ml}$

On Saturday = $131\,500\text{ml}$

$$\begin{array}{r}
 \text{l ml} \\
 15 \quad 040 \\
 + 13 \quad 500 \\
 \hline
 28 \quad 540
 \end{array}$$

Thus, he buy total petrol on together
 $151\,40\text{ml} + 131\,500\text{ml} = 281\,540\text{ml}$

2. One cow gives a milk everyday = $181\,530\text{ml}$

Other cow gives a milk everyday = $121\,840\text{ml}$

$$\begin{array}{r}
 \text{l ml} \\
 \boxed{1}\boxed{1} \\
 \cancel{88} \quad 530 \\
 + 12 \quad 840 \\
 \hline
 31 \quad 370 \text{ ml}
 \end{array}$$

Thus, both the cows gives milk daily

3.

$$\begin{array}{r}
 \text{l ml} \\
 7 \quad 846 \\
 - 6 \quad 244 \\
 \hline
 1 \quad 602
 \end{array}$$

$71\,846\text{ml}$ is more and by $11\,602\text{ml}$.

4. The capacity of one tin of paint = $61\,300\text{ml}$

The capacity of other tin = $51\,200\text{ml}$

$$\begin{array}{r}
 \text{l ml} \\
 6 \quad 200 \\
 + 5 \quad 300 \\
 \hline
 11 \quad 500
 \end{array}$$

Thus, he purchase $111\,500\text{ml}$ paint.

5.

$$\begin{array}{r}
 \text{l ml} \\
 \boxed{1} \\
 \cancel{88} \quad 600 \\
 + 18 \quad 060 \\
 \hline
 34 \quad 660 \text{ ml}
 \end{array}$$

Thus, total quantity of oil in two tin = $341\,660\text{ml}$

6. Shubhanshu fills petrol in car
 $= 181\,400\text{ml}$

After a journey petrol is remaining = $41\,500\text{ml}$

$$\begin{array}{r}
 \text{l ml} \\
 \boxed{7} \quad \boxed{14} \\
 1\cancel{8} \quad \cancel{8}00 \\
 - 4 \quad 500 \\
 \hline
 13 \quad 1900 \text{ ml}
 \end{array}$$

So, the quantity of petrol which used

7. Tin contains oil = 28 l

Due to leakage in the tin oil is wasted =
9 l 582 ml

So, quantity of left oil is

$$\begin{array}{r} \boxed{1} \boxed{1} \boxed{7} \quad \boxed{9} \boxed{10} \\ \cancel{2} \cancel{8} \quad \cancel{0} \cancel{0} \\ - 9 \quad 5 \quad 8 \\ \hline 1 \quad 8 \quad l \quad 4 \quad 2 \quad \text{ml} \end{array}$$

8. A drum contain a diesel = 80 l

Shopkeeper sold diesel on Monday =
36 l 300 ml

On Tuesday = 31 l 600 ml

Diesel left in the drum = 12 l 100 ml

$$\begin{array}{r} 3 \quad 6 \quad l \quad 3 \quad 0 \quad 0 \quad \text{ml} \\ + 3 \quad 1 \quad l \quad 6 \quad 0 \quad 0 \quad \text{ml} \\ \hline 6 \quad 7 \quad l \quad 9 \quad 0 \quad 0 \quad \text{ml} \\ \\ 8 \quad 0 \quad l \quad 0 \quad 0 \quad 0 \quad \text{ml} \\ - 6 \quad 7 \quad l \quad 9 \quad 0 \quad 0 \quad \text{ml} \\ \hline 1 \quad 2 \quad l \quad 1 \quad 0 \quad 0 \quad \text{ml} \end{array}$$

Chapter-11 (Measurement of time)

Exercise Time - 11.1

1. (a) 8:00 (b) 6:25 (c) 10:10 (d) 2:00 (e) 6:00 (f) 4:00 (g) 6:15 (h) 7:20 (i) 3:00
2. Do yourself.

Exercise Time - 11.2

1. Write the following using am and pm :

- (a) 6:25 am (b) 2:00 pm
(c) 12:40 am (d) 12:40 pm
(e) 7:50 pm (f) 9:10 am
(g) 5:40 am (h) 3:30 pm
(i) 8:50 am (j) 12:30 pm

2. Do yourself.

Exercise Time - 11.3

1. 12 months are there in a year.
2. February is come after January
3. 7 month's 4. 4 month's 5. 31 days
6. 29 days 7. 366 days 8. July & August

9. Friday 10. Do yourself.

Exercise Time - 11.4

1. Convert the following into hours :

(∵ 1 days = 24 hours)

(a) 5 days = $24 \times 5 = 120$ hours

(b)

$$\begin{array}{r} 1 \quad 6 \\ \times 2 \quad 4 \\ \hline 6 \quad 4 \\ 3 \quad 2 \quad 0 \\ \hline 6 \quad 8 \quad 4 \end{array}$$

16 days = $16 \times 24 = 384$ hours

(c)

$$\begin{array}{r} 2 \quad 2 \\ \times 2 \quad 4 \\ \hline 8 \quad 8 \\ 8 \quad 8 \quad 0 \\ \hline 9 \quad 6 \quad 8 \end{array}$$

22 days = $22 \times 24 = 528$ hours

(d)

$$\begin{array}{r} 2 \quad 4 \\ \times 2 \quad 1 \\ \hline 2 \quad 4 \\ 4 \quad 8 \quad 0 \\ \hline 5 \quad 0 \quad 4 \end{array}$$

21 days = $24 \times 21 = 504$ hours

(e)

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

36 days = $36 \times 24 = 864$ hours

(f) 23 days 6 hours
= $23 \times 24 \text{ h} + 6 \text{ hours}$
= $552 \text{ h} + 6 \text{ h} = 558 \text{ hours}$

$$\begin{array}{r} 2 \quad 3 \\ \times 2 \quad 4 \\ \hline 9 \quad 2 \\ 4 \quad 6 \quad 0 \\ \hline 5 \quad 5 \quad 2 \end{array}$$

(g) 26 days 1 hour
= $26 \times 24 \text{ h} + 1 \text{ h}$

$$= 624\text{h} + 1\text{h} = 625 \text{ hours}$$

$$\begin{array}{r} 26 \\ \times 24 \\ \hline 104 \\ 520 \\ \hline 624 \end{array}$$

- (h) 12 days 15 hours
 $= 12 \times 24 \text{ h} + 15 \text{ h}$
 $= 228 \text{ h} + 15 \text{ h} = 303 \text{ hours}$

$$\begin{array}{r} 12 \\ \times 24 \\ \hline 48 \\ 240 \\ \hline 288 \end{array}$$

- (i) 18 days 21 hours
 $= 18 \times 24 \text{ h} + 21 \text{ h}$
 $= 432 \text{ h} + 21 \text{ h} = 453 \text{ hours}$
 $\therefore 1 \text{ month} = 30 \text{ days}$

$$\begin{array}{r} 18 \\ \times 21 \\ \hline 72 \\ 360 \\ \hline 432 \end{array}$$

2. (a) 3 month = 90 days

(b) 7 months = $7 \times 30 = \mathbf{210 \text{ days}}$

(c) 11 months = $11 \times 30 = \mathbf{330 \text{ days}}$

(d) 25 months = $25 \times 30 = \mathbf{750 \text{ days}}$

(e) 5 weeks = $5 \times 7 \times 30$

($\therefore 1 \text{ week} = 7 \text{ days}$)

$= 56 \times 30$

$= \mathbf{1680 \text{ days}}$

(f) 14 weeks = $14 \times 7 \times 30$

$= 98 \times 30$

$= \mathbf{2940 \text{ days}}$

(g) 3 months 6 weeks = $3 \times 30 + 6 \times 7$

$= 90 + 42$

$= \mathbf{132 \text{ days}}$

(h) 12 months 4 weeks

$= 12 \times 30 + 4 \times 7$

$= 360 + 28$

$= \mathbf{388 \text{ days}}$

(i) 54 weeks 6 days = $54 \times 7 + 6 \text{ days}$

$= 378 + 6 \text{ days}$

$= \mathbf{384 \text{ days}}$

3. (a) 6 hours (1 hours = 60 minutes)

$= 6 \times 60 \text{ m} = 360 \text{ minutes}$

(b) 7 hours = $7 \times 60 \text{ m} = 420 \text{ m}$

(c) 14 hours = $14 \times 60 \text{ m}$

$= \mathbf{840 \text{ minutes}}$

$$\begin{array}{r} 60 \\ \times 14 \\ \hline 240 \\ 600 \\ \hline 840 \end{array}$$

- (d) 2 days = $2 \times 24 \text{ h} = 48 \text{ h}$

$= 48 \text{ h} \times 60 \text{ minutes} = \mathbf{2880 \text{ m}}$

$$\begin{array}{r} 60 \\ \times 48 \\ \hline 480 \\ 240 \times \\ \hline 2880 \end{array}$$

- (e) 1 day 23 hours 25 minutes

($\therefore 1 \text{ day} = 24 \text{ h}$)

$24 \times 60 \text{ m} + 23 \times 60 \text{ m} + 25 \text{ minutes}$

$1 \text{ h} = 60 \text{ m}$)

$1440 \text{ m} + 1380 \text{ m} + 25 \text{ m} =$

$\mathbf{1645 \text{ minutes}}$

$$\begin{array}{r} 23 \\ \times 60 \\ \hline 00 \\ 138 \times \\ \hline 1380 \end{array}$$

- (f) 4 hours 40 minutes

$= 4 \times 60 \text{ m} + 40 \text{ m}$

$240 \text{ m} + 40 \text{ m} = 280 \text{ m}$

$$\begin{array}{r} 24 \\ \times 60 \\ \hline 00 \\ 144 \times \\ \hline 1440 \end{array}$$

- (g) 16 hours 28 minutes

$16 \times 60 \text{ m} + 28 \text{ m}$

$960 \text{ m} + 28 \text{ m} = 988 \text{ m}$

$$\begin{array}{r}
 16 \\
 \times 60 \\
 \hline
 00 \\
 96 \times \\
 \hline
 960
 \end{array}$$

- (h) 27hours 29minutes
 $= 27 \times 60m + 29m$
 $= 1620m + 29m = 1649m$

$$\begin{array}{r}
 27 \\
 \times 60 \\
 \hline
 00 \\
 162 \times \\
 \hline
 1620
 \end{array}$$

- (i) 2 hours and 4 minutes
 $= 2 \times 60m + 4m$
 $= 120m + 4m$
 $= 124m$

4. Convert the following into seconds :

($\therefore 1m = 60 \text{ second}$)

- (a) 18 minutes $= 18 \times 60 \text{ seconds}$
 $= 1080 \text{ seconds}$

- (b) 23 minutes $= 23 \times 60 \text{ seconds}$
 $= 1380 \text{ seconds}$

- (c) 50 minutes $= 50 \times 60 \text{ seconds}$
 $= 3000 \text{ seconds}$

- (d) 2 hours 20 minutes

($\therefore 1h = 60m$)

$$2 \times 60m \times 60s + 20m \times 60s$$

($\therefore 1m = 60s$)

$$120m \times 60s + 20m \times 60s$$

$$\begin{array}{r}
 120 \quad 20 \\
 \times 60 \quad \times 60 \\
 \hline
 000 \quad 00 \\
 420 \times \quad 120 \times \\
 \hline
 7200 \quad 1200
 \end{array}$$

$$7200s + 1200s = 8400 \text{ seconds}$$

- (e) 3 hours 28 minutes

($\therefore 1h = 60m$)

$$3 \times 60m \times 60s + 28 \times 60s$$

($\therefore 1m = 60s$)

$$180m \times 60s + 1680s$$

$$\begin{array}{r}
 180 \quad 28 \\
 \times 60 \quad \times 60 \\
 \hline
 000 \quad 00 \\
 1080 \times \quad 168 \times \\
 \hline
 10800 \quad 1680
 \end{array}$$

$$10800s + 1680s = 12480 \text{ Seconds}$$

- (f) 5 hours, 18 minutes 16 seconds
 $= 5 \times 60m \times 60s + 18 \times 60s + 16s.$
 $= 30 \times 60s + 1080s + 16s$
 $= 1800s + 1080s + 16s$
 $= 2896 \text{ Seconds.}$

5. Duration of match = 1hour 15 minutes
 when it conversion in minutes then, 1
 hour 15 minutes

$$= 1 \times 60m + 15m$$

$$= 60m + 15m$$

$$= 75 \text{ minutes}$$

6. Time of Diljit's English quiz lasted =
 2hour 40 minutes

He answered the half of question
 $= 50min.$

So, minutes are left in the quiz

$$= 2\text{hour } 40 \text{ minutes} - 50 \text{ minutes}$$

$$= 2 \times 60m + 40m - 50m$$

$$= 120m + 40m - 50m$$

$$= 160m - 50m$$

$$= 110 \text{ minutes}$$

Chapter-12 (Geometry)

Exercise Time - 12.1

1. Fill in the blanks :

- A ray has **one** end point.
- A line was no **end** point.
- A line segment has two **end** points.
- A line segment has a **starting** and an **ending** point.
- We can draw only one line through two points.
- We can draw **group** of lines from one point.

2. Write 'T' for true and 'F' for false against each statement :

- True
- False

- (c) False (d) True
(e) True (f) False

3. Write the name and symbol of each figure :

(a)  (b) Name **Ray**
Symbol 

(a) Name **Line segment** (d) Name **Line**
Symbol  Symbol 

4. Name the points and the line segment in the following figures :

- (a) points **3** Line segments **3**
(b) points **5** Line segments **5**
(c) points **1** Line segments **2**

Exercise Time - 12.2

Do it yourself.

Exercise Time - 12.3

- (a) 4 (b) 4 (c) No (d) yes (e) 3 (f) No
- (a) 7 (b) 8
- Count and write the number of squares in each case :**
(a) 6 (b) 5
- Name two object that have square faces :**
Rectangular Prism, Dice
- Put a tick (✓) on the correct shape for each of the following :**

(a) A black-board	Rectangle
(b) A coin	Circle
(c) The face of dice	Square
(d) The face of a book	Rectangle

Exercise Time - 12.4

1. Find out the perimeter of the following figures :

(Perimeter = Sum of length of sides)

(a) Perimeter = $(3 + 3 + 3 + 3)$ cm
= 12 cm

(b) Perimeter = $(4 + 2 + 2 + 4)$ cm
= 12 cm

(c) Perimeter = $(5 + 5 + 3)$ cm
= 13 cm

2. Do it yourself.

3. Perimeter = Sum of sides

= $(9 + 8 + 7)$ cm
= 24 cm

4. Perimeter = sum of sides

= $50\text{cm} + 50\text{cm} + 15\text{cm} + 15\text{cm}$
= 130 cm

5. Sides of rectangular field length

$180\text{cm} + 170\text{cm} + 165\text{cm} + 220\text{ cm}$
= 735 cm

So, he walk in two round = $735\text{cm} \times 2$
= 1470 cm Ans

6. The Perimeter of square shaped

= sum of sides
= $5\text{m} + 5\text{m} + 5\text{m} + 5\text{m} = 20\text{m}$

Thus, Sachin does walk a round of square shaped 5m classroom = 20m

Chapter-13 Pictorial Representation of Data

Do yourself.