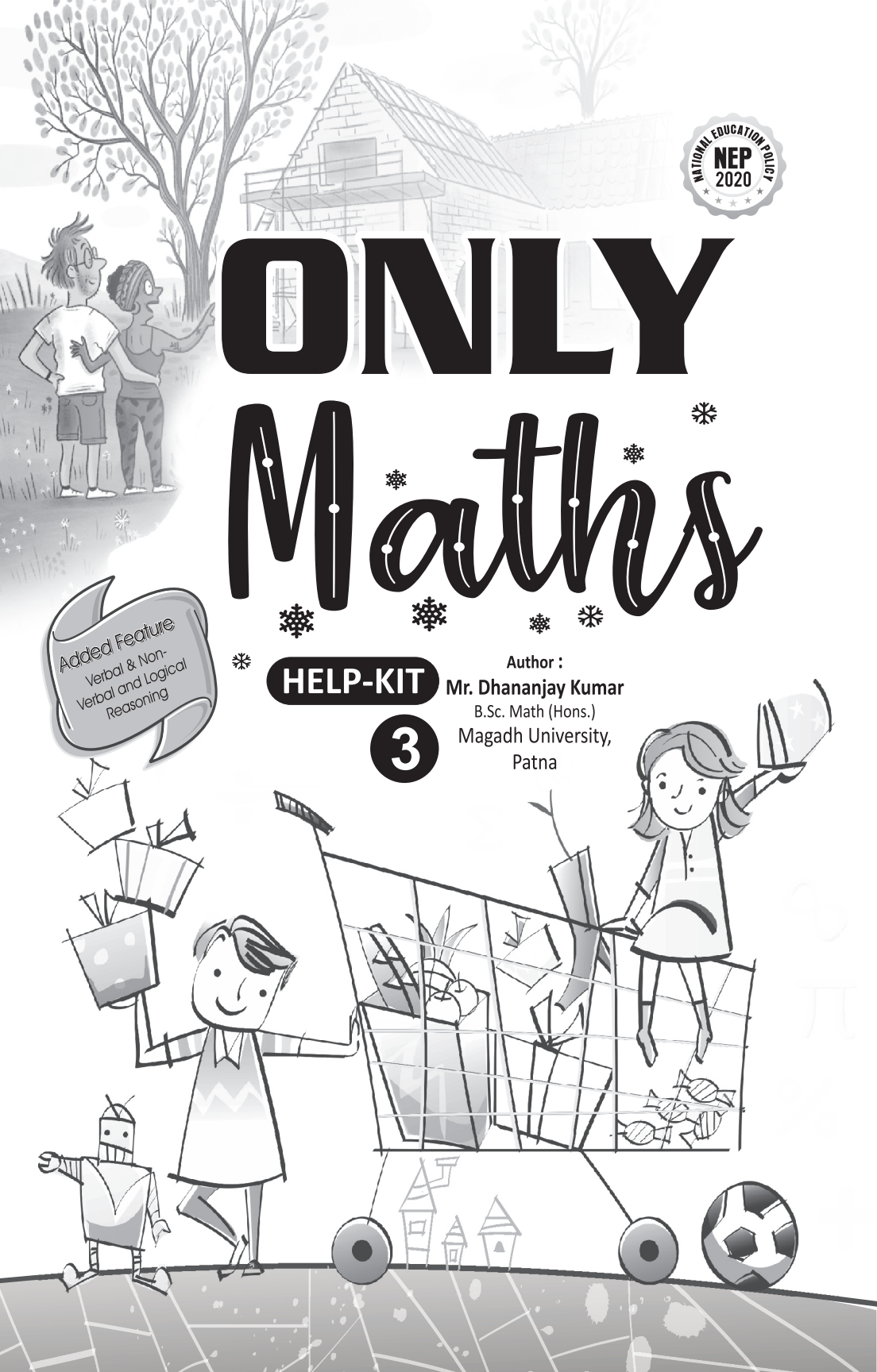

NATIONAL EDUCATION POLICY NEP 2020

ONLY Maths

Added Feature
Verbal & Non-Verbal and Logical Reasoning

HELP-KIT 3

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Exercise-1

1. (a) 492 Four hundred and ninety two
(b) 365 Three hundred and sixty five
(c) 198 One hundred and ninety eight
(d) 625 Six hundred and twenty five
(e) 532 Five hundred and thirty two
(f) 674 Six hundred and seventy four
(g) 982 Nine hundred eighty two
(h) 834 Eight hundred and thirty four

2. (a) 658 (b) 550 (c) 349 (d) 652
(e) 213 (f) 422 (g) 711 (h) 810
(i) 460 (j) 970 (k) 606 (*l*) 549
(m) 414 (n) 770 (o) 505 (p) 930
(q) 900 (r) 212 (s) 113 (t) 563

3. (a) $448 = 400 + 40 + 8$ (b) $337 = 300 + 30 + 7$
(c) $885 = 800 + 80 + 5$ (d) $921 = 900 + 20 + 21$
(e) $416 = 400 + 10 + 6$ (f) $730 = 700 + 30 + 0$
(g) $169 = 100 + 60 + 9$ (h) $205 = 200 + 0 + 5$

4. (a) $200 + 10 + 5 = 215$ (b) $800 + 80 + 8 = 888$
(c) $500 + 50 + 6 = 556$ (d) $400 + 40 + 4 = 444$
(e) $900 + 0 + 7 = 907$ (f) $60 + 10 + 0 = 610$
(g) $300 + 90 + 4 = 394$ (h) $100 + 60 + 7 = 167$

5. (a) 837 = 8 hundreds 3 tens 7 ones (b) 245 = 2 hundreds 4 tens 5 ones
(c) 356 = 3 hundreds 5 tens 6 ones (d) 905 = 9 hundreds 0 tens 5 ones
(e) 580 = 5 hundreds 8 tens 0 ones (f) 639 = 6 hundreds 3 tens 9 ones
(g) 844 = 8 hundreds 4 tens 4 ones (h) 700 = 7 hundreds 0 tens 0 ones

6. (a) 425 = Four hundred twenty five
(b) 735 = Seven hundred thirty five
(c) 590 = Five hundred ninety
(d) 518 = Five hundred and eighteen

7. (a) two (b) three (c) 10 (d) 99
(e) 100 (f) 999

8. (a) 502 (503) (b) 907 (908) (c) 522 (523) (d) 881 (882)
(e) 642 (643) (f) 358 (359) (g) 989 (990) (h) 499 (500)

9. (a) (621) 622 (b) (419) 420 (c) (648) 649 (d) (789) 790

(e) (456) 457 (f) (499) 500 (g) (339) 340 (h) (188) 189

10. (a) 46 < 64 (b) 101 > 98 (c) 647 > 467 (d) 101 < 110

(e) 900 > 90 (f) 978 > 897 (g) 243 < 342 (h) 901 > 109

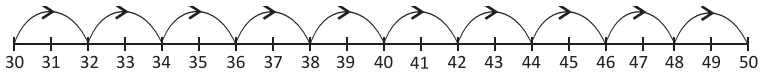
(i) 365 < 536 (j) 72 > 68 (k) 273 < 472 (*l*) 900 = 900

(m) 36 < 63 (n) 834 > 438 (o) 90 < 110 (p) 746 < 902

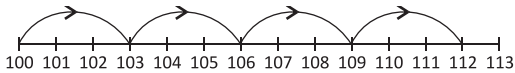
(q) 677 = 677 (r) 345 < 466 (s) 90 < 109 (t) 677 > 646

(u) 449 < 499

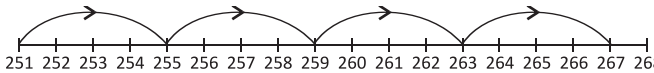
11. (a)



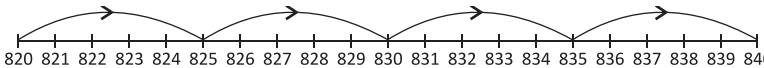
(b)



(c)



(d)



12. (a) 6, 8, 10, **12**, **14**, **16**, **18**, **20**

(b) 11, 16, 21, **26**, **31**, **36**, **41**, **46**

(c) 80, 90, 100, **110**, **120**, **130**, **140**, **150**

(d) 435, 430, 425, **420**, **415**, **410**, **405**, **400**

(e) 327, 337, 347, **357**, **367**, **377**, **387**, **397**

13. 371, **373**, **375**, **377**, **379**, **381**, **383**, **385**, **387**, 889

14. 125, **130**, **135**, **140**, **145**, 150

15. 127, **137**, **147**, **157**, **167**, 177

16. 316, **416**, **516**, **616**, 716

17. (a) 540 > 504 > 450 > 54 > 45

(b) 960 > 906 > 690 > 617 > 69

(c) 643 > 634 > 463 > 436 > 364 > 346

(d) 760 > 560 > 460 > 360 > 260 > 160

18. (a) 378 < 387 < 738 < 783 < 837 < 873

(b) 19 < 90 < 91 < 109 < 190 < 901

(c) 55 < 500 < 505 < 550 < 555

(d) 201 < 401 < 501 < 601 < 701 < 801

19. (a) 999 (b) 10 (c) 100 (d) 99

(e) 1000 (f) 9999

20. 900

21. 90

22. 10

23. (a)

	T	O
	3	7
+	2	2
	5	9

(b)

	T	O
	8	7
+	3	1
1	1	8

(c)

	H	T	O
	5	4	3
+	3	3	4
	8	7	7

(d)

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

(e)

H	T	O
9	0	3
+	7	1
+	2	2
9	9	6

(f)

H	T	O
8	7	6
+	7	2
+	5	2
2	0	0

(g)

H	T	O
9	0	3
+	7	9
+	2	2
1	0	0

(h)

H	T	O
4	4	5
+	4	4
	+	4
4	9	3

24. (a)

	H	T	O
	4	4	4
+		8	8
+	3	3	3
	8	6	5

(b)

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

(c)

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

(d)

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

(e)

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

(f)

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

25. (a)

	T	O
	4	9
–	2	2
	2	7

(b)

	T	O
	6	8
–	5	7
	1	1

(c)

H	T	O
4	3	6
–	1	5
4	2	1

(d)

H	T	O
9	9	9
–	6	6
3	3	3

(e)

	H	T	O
	6	8	2
–	3	0	1
	3	8	1

(f)

H	T	O
3	3	3
–	1	0
3	2	3

(g)

	H	T	O
	4	4	7
–	1	3	7
	3	1	0

(h)

H	T	O
8	7	9
–	5	7
3	0	1

26. (a)

H	T	O
3	7	4
–	4	2
3	3	2

(b)

H	T	O
4	9	3
–	6	5
4	2	8

(c)

	H	T	O
	2	0	2
–	1	8	7
	0	1	5

(d)

H	T	O
5	0	0
–	1	9	6
3	3	4

(e)

	H	T	O
	5	3	2
–	4	7	9
	0	5	3

(f)

H	T	O
8	8	8
–	2	3	8
6	5	0

27. (a)

	H	T	O
	6	2	5
−	3	8	6
	2	3	9

(b)

	H	T	O
	8	0	3
−	5	7	5
	2	2	8

(c)

	H	T	O
	8	2	1
−	3	4	9
	4	7	2

(d)

	H	T	O
	6	0	0
−	5	0	9
	0	9	1

(e)

	H	T	O
	9	2	9
−	3	3	7
	5	9	2

(f)

	H	T	O
	3	0	0
−	1	6	3
	1	3	7

28. (a) $2+2+2+2=2\times\mathbf{4}$
(b) $5+5+5+5+5=\mathbf{5}\times5$
(c) $7+7+7+7+7+7=6\times\mathbf{7}$
(d) $10+10+10+10=10\times\mathbf{4}$
(e) $9=9\times\mathbf{1}$

29. (a) $4\times7=28$ (b) $7\times7=49$ (c) $3\times5=15$ (d) $5\times8=40$
(e) $7\times8=56$ (f) $5\times9=45$ (g) $9\times10=90$ (h) $8\times8=64$
(i) $6\times6=36$

30. (a) $2\underline{+}2=4$ (b) $3\underline{\times}4=12$ (c) $7\underline{+}3=10$ (d) $3\underline{\times}8=24$
(e) $1\underline{+}9=10$ (f) $6\underline{\times}0=0$ (g) $7\times\underline{5}=5\times7$ (h) $4\times9=\underline{9}\times4$
(i) $8\times10=10\times\underline{8}$

31. (a)

	8	2
×		5
4	1	0

(b)

1	0	2
×		8
8	1	6

(c)

	⑤	
	2	6
×		9
2	3	4

(d)

①	③	
2	3	7
×		5
1	1	8 5

32. In 1 note book pages $=68$
In 8 note book pages $=68\times8=544$

	⑥	
	6	8
×		8
5	4	4

33. In 1 month days $=30$
In 5 months days $=30\times5=150$

	3	0
×		5
1	5	0

34. In 1 bus seats $=52$
In 6 buses seats $=52\times6=312$

	①	
	5	2
×		6
3	1	2

35.

In school boys	=	6 4 7
In school girls	=	+ 2 1 8
Children in school	=	8 6 5

36.

Ali earned	=	₹ 1 0 9 1
Ali spent	=	− ₹ 5 8 5
Ali saved	=	₹ 5 0 6

37. (a) $21 \div 3$

$$\left.\begin{array}{r} 21-3=18 \\ 18-3=15 \\ 15-3=12 \\ 12-3=9 \\ 9-3=6 \\ 6-3=3 \\ 3-3=0 \end{array}\right\} \text{7 times}$$

Quotient $=7$

(b) $48 \div 8$

$$\left.\begin{array}{r} 48-8=40 \\ 40-8=32 \\ 32-8=24 \\ 24-8=16 \\ 16-8=8 \\ 8-8=0 \end{array}\right\} \text{6 times}$$

Quotient $=6$

(c) $50 \div 5$

$$\left.\begin{array}{r} 50-5=45 \\ 45-5=40 \\ 40-5=35 \\ 35-5=30 \\ 30-5=25 \\ 25-5=20 \\ 20-5=15 \\ 15-5=10 \\ 10-5=5 \\ 5-5=0 \end{array}\right\} \text{10 times}$$

Quotient $=10$

(d) $36 \div 6$

$$\left.\begin{array}{r} 36-6=30 \\ 30-6=24 \\ 24-6=18 \\ 18-6=12 \\ 12-6=6 \\ 6-6=0 \end{array}\right\} \text{6 times}$$

Quotient $=6$

(e) $45 \div 9$

$$\left.\begin{array}{r} 45-9=36 \\ 36-9=27 \\ 27-9=18 \\ 18-9=9 \\ 9-9=0 \end{array}\right\} \text{5 times}$$

Quotient $=5$

(f) $35 \div 7$

$$\left.\begin{array}{r} 35-7=28 \\ 28-7=21 \\ 21-7=14 \\ 14-7=7 \\ 7-7=0 \end{array}\right\} \text{5 times}$$

Quotient $=5$

(g) $10 \div 2$

$$\left.\begin{array}{r} 10-2=8 \\ 8-2=6 \\ 6-2=4 \\ 4-2=2 \\ 2-2=0 \end{array}\right\} \text{5 times}$$

Quotient $=5$

(h) $28 \div 4$

$$\left.\begin{array}{r} 28-4=24 \\ 24-4=20 \\ 20-4=16 \\ 16-4=12 \\ 12-4=8 \\ 8-4=4 \\ 4-4=0 \end{array}\right\} \text{7 times}$$

Quotient $=7$

38. (a) $48 \div 7$

```
     6
7 ) 42
   −42
     0
```

Quotient = 6

(b) $27 \div 3$

```
     9
3 ) 27
   −27
     0
```

Quotient = 9

(c) $64 \div 8$

```
     8
8 ) 64
   −64
     0
```

Quotient = 8

(d) $81 \div 9$

```
     9
9 ) 81
   −81
     0
```

Quotient = 9

(e) $20 \div 5$

```
     4
5 ) 20
   −20
     0
```

Quotient = 4

(f) $32 \div 4$

```
     8
4 ) 32
   −81
     0
```

Quotient = 8

(g) $60 \div 10$

```
     6
10 ) 60
   −60
     0
```

Quotient = 6

(h) $16 \div 2$

```
     8
2 ) 16
   −16
     0
```

Quotient = 8

39. (a)

```
     9
7 ) 63
   −63
     0
```

Quotient = 9
Remainder = 0

(b)

```
     11
8 ) 88
   −8
     08
    −8
     0
```

Quotient = 11
Remainder = 0

(c)

```
     14
5 ) 70
   −5
     20
   −20
     0
```

Quotient = 14
Remainder = 0

(d)

```
     110
4 ) 440
   −4
     04
    −4
     00
```

Quotient = 110
Remainder = 0

(e)

```
     7
4 ) 29
   −28
     1
```

Quotient = 7
Remainder = 1

(f)

(g)

```
     326
3 ) 980
   −9
     08
    −6
     20
   −18
      2
```

Quotient = 326
Remainder = 2

(h)

```
     8
10 ) 83
   −80
     3
```

Quotient = 8
Remainder = 3

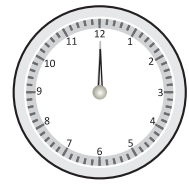
4. (a)

4 : 00

(b)

11 : 20

(c)



12 : 00

(d) 

3 : 30

(e) 

5 : 30

(f) 

7 : 45

41. (a) 7 : 25 (b) 9 : 05 (c) 12 : 40

42. (a) 28/29 (b) 31 days (c) December (d) January
(e) 31 days (f) 31 days

43. (a) 100 cm = **1** m (b) 1000 m = **1** km
(c) 1000 g = **1** kg (d) 1000 ml = **1** litre

44. (a)

	2	5	**P**
	7	0	**P**
+	1	8	**P**
1	1	3	**P**

(b)

	₹	1	2	0
	₹		8	0
+	₹		4	5
	₹	2	4	5

(c)

	7	3	0	**m**
	1	2	5	**m**
+		8	5	**m**
	9	4	0	**m**

(d)

	8	2	**kg**
+		7	**kg**
	8	9	**kg**

(e)

	3	1	2	**kg**
+		8	0	**kg**
	3	9	2	**kg**

(f)

	3	0	0	**g**
	2	7	5	**g**
+	1	5	0	**g**
	7	2	5	**g**

(g)

	8	0	0	**g**
	1	0	0	**g**
+		7	5	**g**
	9	7	5	**g**

(h)

		2	2	***l***
	1	0	5	***l***
+		3	4	***l***
	1	6	1	***l***

(i)

	1	1	0	**cm**
		9	5	**cm**
+		2	5	**cm**
	2	3	0	**cm**

(j)

	2	2	5	**ml**
	1	7	0	**ml**
+	1	8	5	**ml**
	5	8	0	**ml**

45. (a)

	4	3	0	**ml**
–		5	5	**ml**
	3	7	5	**ml**

(b)

	2	5	0	***l***
–		8	0	***l***
	1	7	0	***l***

(c)

	6	7	**kg**
–	3	0	**kg**
	3	7	**kg**

(d)

	8	7	0	**g**
–	4	3	5	**g**
	4	3	5	**g**

(e)

	9	4	**m**
–	3	6	**m**
	5	8	**m**

(f)

	7	0	**cm**
–	2	8	**cm**
	4	2	**cm**

46. Cost of 4 kg of grapes = ₹ 100
Cost of 1 kg of grapes = ₹ 100 ÷ 4 = ₹ 25

```
      25
4 ) 100
    –8
     20
    –20
      0
```

47. Cost of 9 note books = ₹ 72
Cost of 1 note book = ₹ 72 ÷ 9 = ₹ 8

```
      8
9 ) 72
    −72
     0
```

48. (a) Black board, page of book
(b) Bangle, coin
(c) Set squares in geometry box, patties
(d) Football, marble
(e) Geometric box, book
(f) Pen holder, glass
(g) Ice-cream cone, jocker cap

49. (a) $\frac{1}{2}$ shows **1** part out of **2** equal part
(b) $\frac{2}{3}$ shows **2** part out of **3** equal part
(c) $\frac{3}{4}$ shows **3** part out of **4** equal part
(d) $\frac{1}{3}$ shows **1** part out of **3** equal part

50. (a)

₹	P
15	35
+ 18	27
33	62

(b)

₹	P
48	75
+ 15	35
64	10

(c)

₹	P
30	70
+ 50	40
81	10

(d)

₹	7 . 5 0
+ ₹	3 . 2 5
₹	1 0 . 7 5

(e)

₹	2 8 . 6 3
+ ₹	9 . 5 4
₹	3 8 . 1 7

(f)

₹	3 0 . 6 5
+ ₹	1 8 . 8 6
₹	4 9 . 5 1

(g)

km	m
76	380
+ 72	275
148	655

(h)

m	cm
45	85
+ 28	73
74	58

(i)

m	cm
49	06
+ 47	93
96	99

(j)

km	m
48	455
+ 15	876
64	331

(k)

km	m
89	296
+ 283	856
373	152

(l)

m	cm
45	85
+ 28	73
74	58

51. (a)

	₹ 36.37
–	₹ 13.25
	₹ 23.12

(b)

	₹ 65.20
–	₹ 15.76
	₹ 49.44

(c)

	₹ 80.63
–	₹ 25.38
	₹ 55.45

(d)

₹	P
48	35
– 14	32
34	03

(e)

₹	P
59	37
– 35	83
23	54

(f)

₹	P
95	80
– 76	75
19	05

(g)

km	m
69	357
– 27	216
42	141

(h)

km	m
86	308
– 32	417
53	891

(i)

m	cm
96	05
– 23	84
72	21

(j)

m	cm
45	18
– 9	24
35	94

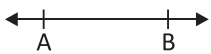
(k)

kg	g
78	576
– 24	265
54	311

(*l*)

kg	g
67	063
– 15	237
51	826

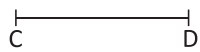
52. (a)



$\overleftrightarrow{AB}$

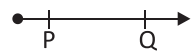
line AB

(b)



line segment $\overline{CD}$

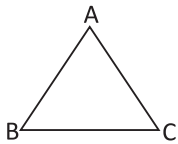
(c)



$\overrightarrow{PQ}$

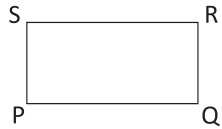
ray PQ

(d)



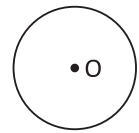
Triangle ABC

(e)



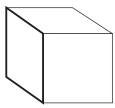
Rectangle PQRS

(f)



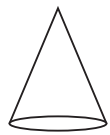
Circle with centre O

(g)



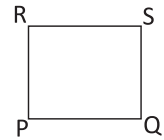
Cube

(h)



Cone

(i)

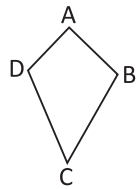


Square PQRS

(j)

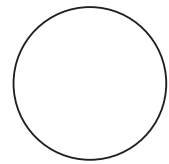
Cuboid

(k)



Kite ABCD

(*l*)



Sphere

53. (a) 4 (b) 12 (c) 5

54. (a) 8, 6 (b) 309
(c) 200 (d) 690, 691, 692
(e) 797, 796, 795, 794 (f) 298, 296, 294, 292, 290
(g) 398 (h) 93
(i) 3 kg = **3000** g (j) 6 m = **600** cm

❍❍❍

2 Numbers and Numeration

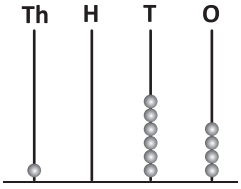
Exercise- 2.1

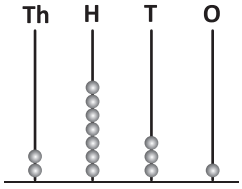
1.

1001	1011	**1021**	**1031**	**1041**	1051	**1061**	**1071**	1081	**1091**
1002	**1012**	1022	**1032**	**1042**	**1052**	**1062**	**1072**	**1082**	**1092**
1003	**1013**	1023	**1033**	**1043**	**1053**	1063	**1073**	**1083**	**1093**
1004	1014	**1024**	**1034**	**1044**	**1054**	**1064**	1074	**1084**	**1094**
1005	**1015**	**1025**	**1035**	1045	**1055**	**1065**	1075	**1085**	**1095**
1006	**1016**	**1026**	**1036**	**1046**	1056	**1066**	**1076**	**1086**	**1096**
1007	**1017**	1027	**1037**	**1047**	**1057**	**1067**	**1077**	**1087**	**1097**
1008	1018	**1028**	**1038**	**1048**	**1058**	1068	**1078**	**1088**	**1098**
1009	**1019**	**1029**	1039	**1049**	**1059**	**1069**	**1079**	**1089**	1099
1010	**1020**	1030	**1040**	**1050**	1060	**1070**	**1080**	1090	1100

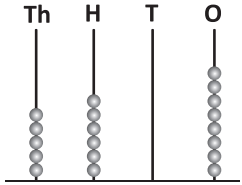
2. (a) $1000 + 300 + 50 + 4 = 1,354$ (b) $3000 + 500 + 30 + 5 = 3,535$
(c) $6000 + 700 + 60 + 7 = 6,767$ (d) $2000 + 300 + 20 + 1 = 2,321$
(e) $3000 + 0 + 20 + 3 = 3,023$ (f) $2000 + 300 + 0 + 1 = 2,301$

3. (a) 1064 (b) 2731

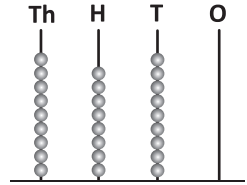




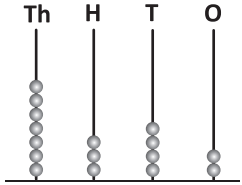
(c) 5608



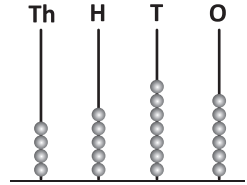
(d) 9890



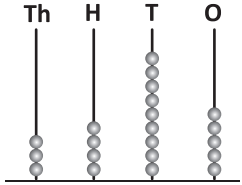
(e) 7342



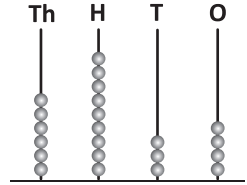
(f) 4576



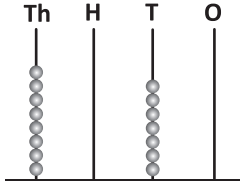
(g) 3495



(h) 6934



(i) 8070



4. (a) 5,243 (b) 3,451 (c) 2,630 (d) 4,637
(e) 4,057 (f) 7,805 (g) 3,521 (h) 7,302
(i) 4,042

Exercise- 2.2

1. (b) Nine hundred seventy four
(c) Fourteen thousand two hundred and six
(d) Two thousand and fifty two
(e) Thirty four thousand five hundred sixty eight
(f) Thirteen thousand one hundred seventy nine
(g) Fifty two thousand five hundred seventy six
(h) Seventy thousand nine hundred and one
(i) Four thousand four hundred and seven

2. (a)

TTh	Th	H	T	O
8	3	2	1	0

(b)

TTh	Th	H	T	O
6	8	3	0	4

(c)

TTh	Th	H	T	O
	7	9	0	7

(d)

H	T	O
9	4	5

(e)

TTh	Th	H	T	O
9	1	7	0	2

3. (a) 7,594 = Seven thousand five hundred ninety four
(b) 3,217 = Three thousand two hundred and seventeen
(c) 50,501 = Fifty thousand five hundred and one
(d) 72,532 = Seventy two thousand five hundred thirty two
(e) 28,725 = Twenty eight thousand seven hundred twenty five
(f) 85,621 = Eighty five thousand six hundred twenty one
(g) 8,007 = Eight thousand and seven
(h) 21,112 = Twenty one thousand one hundred and twelve
(i) 3,800 = Three thousand eight hundred
(j) 57,890 = Fifty seven thousand eight hundred and ninety
(k) 70,900 = Seventy thousand nine hundred
(*l*) 30,020 = Thirty thousand and twenty
(m) 54,444 = Fifty four thousand four hundred forty four
(n) 11,708 = Eleven thousand seven hundred and eight
(o) 65,749 = Sixty five thousand seven hundred forty nine

4. (a) 4,428 (b) 5,763 (c) 4,502 (d) 6,811
(e) 3,002 (f) 61,276 (g) 13,813 (h) 90,805
(i) 71,378 (j) 71,432

5. (a) 6,361 (b) 9,713 (c) 5,057 (d) 1,101
(e) 4,768 (f) 87,411 (g) 34,043 (h) 69,414
(i) 51,817 (j) 94,388

6.

Thousand			Ones		
Ten Thousand		Thousand	Hundred	Tens	Ones
TTh		Th	H	T	O
a.		4	5	4	1
b.		8	6	8	3
c.		7	0	2	5
d.		6	6	2	9
e.		9	6	6	8
f.	7	5	7	5	0
g.	2	8	2	3	2
h.	6	5	2	2	9
i.	4	0	0	8	8
j.	2	0	0	0	0
k.	3	9	6	2	4
l.	4	2	0	6	8

(a) Four thousand five hundred forty one
(b) Eight thousand six hundred eighty three
(c) Seven thousand and twenty five
(d) Six thousand six hundred and twenty nine
(e) Nine thousand six hundred sixty eight
(f) Seventy five thousand seven hundred fifty
(g) Twenty eight thousand two hundred thirty two
(h) Sixty five thousand two hundred twenty nine
(i) Forty thousand and eighty eight
(j) Twenty thousand
(k) Thirty nine thousand six hundred twenty four
(*l*) Forty two thousand and sixty eight

Exercise- 2.3

1. (a)

	Tens	Ones
17	1	7
23	②	3
14	1	④
37	③	7
56	⑤	⑥

(b)

	Hundred	Tens	Ones
137	1	3	7
250	②	⑤	0
309	③	0	⑨
642	6	④	②
971	⑨	7	1

(c)

	Thousands	Hundreds	Tens	Ones
1472	1	4	7	2
9565	⑨	⑤	6	5
1455	1	④	5	⑤
2980	2	⑨	⑧	0
2010	②	0	1	⓪

2. (a) 7, ① 3 5 100 (b) 9, 4 2 ⑦ 7
(c) 6, 2 ⑧ 7 80 (d) ②, 6 9 8 2000

3. (a) **5** thousands (b) **2** hundreds
(c) **7** tens (d) **5** ones

4. (a) The number having 6 in thousand place
5,637; 4,216; 6,325 ; 3,268
(b) The number in which palce value of 5 is 5,000
4,254; 3,578; 6,325; 5,637

5. Place values of 3 in 3,315 are 3000 and 300
difference $\boxed{3000} - \boxed{300} = \boxed{2,700}$

6. (a) Place values of 5 in 5,057 are 5000 and 50
sum $\boxed{5000} + \boxed{50} = \boxed{5,050}$

(b) Place values of 5 in 8,595 are 500 and 5
sum $\boxed{500} + \boxed{5} = \boxed{505}$

7.

Number	9 6 7 1	2 0 8 3	3 9 8 0	9 4 4 2	1 8 8 5
Place value	9000	0	0	40	80
Face value	9	0	0	4	8

8.

	Number	Place value	Face value	Difference
a.	7 6 2 1	20	2	18
b.	2 7 2 8	700	7	693
c.	3 7 0 5	5	5	0
d.	6 9 59	6,000	6	5,994
e.	2 5 9 5	500	5	495
f.	8 2 7 6 1	1	1	0
g.	1 3 2 1 4	3,000	3	2,997
h.	4 4 0 5 6	50	5	45
i.	9 8 8 6 2	800	8	792
j.	7 0 5 6 3	0	0	0

Exercise- 2.4

1. (a) $1000 + 800 + 30 + 2 = 1,832$ (b) $8000 + 90 + 2 = 8,092$
(c) $7000 + 500 + 6 = 7,506$ (d) $8000 + 600 + 70 = 8,670$

2. (a) 9 thousands + 4 hundreds + 8 ones
9480 ◯ 9408 ✓ 9084 ◯

(b) 5 thousands + 6 hundreds + 7 tens
5607 ◯ 5670 ✓ 5067 ◯

(c) 7 thousands
700 ◯ 70 ◯ 7000 ✓

3. (a) 7,456 = **7** thousands + **4** hunreds + **5** tens + **6** ones
(b) 2,049 = **7** thousands + **0** hunreds + **4** tens + **9** ones
(c) 9,206 = **9** thousands + **2** hunreds + **0** tens + **6** ones
(d) 8,645 = **8** thousands + **6** hunreds + **4** tens + **5** ones

4. (a) 5,429 = **5** thousands + **4** hundreds + **2** tens + **9** ones
(b) 321 = **3** hundreds + **2** tens + **1** ones
(c) 206 = **2** hundreds + **0** tens + **6** ones
(d) 1,563 = **1** thousands + **5** hundreds + **6** tens + **3** ones
(e) 4,047 = **4** thousands + **0** hundreds + **4** tens + **7** ones
(f) 67,942 = **6** ten thousands + **7** thousands + **9** hundreds + **4** tens + **2** ones
(g) 50,492 = **5** ten thousands + **0** thousands + **4** hundreds + **9** tens + **2** ones
(h) 80,005 = **8** ten thousands + **0** thousands + **0** hundreds + **0** tens + **5** ones
(i) 72,416 = **7** ten thousands + **2** thousands + **4** hundreds + **1** tens + **6** ones
(j) 37,504 = **3** ten thousands + **7** thousands + **5** hundreds + **0** tens + **4** ones
(k) 89,998 = **8** ten thousands + **9** thousands + **9** hundreds + **9** tens + **8** ones

5. (b) $6{,}529 = \mathbf{6} \times 1000 + \mathbf{5} \times 100 + \mathbf{2} \times 10 + \mathbf{9} \times 1$
(c) $63{,}634 = \mathbf{6} \times 10000 + \mathbf{3} \times 1000 + \mathbf{6} \times 100 + \mathbf{3} \times 10 + \mathbf{4} \times 1$
(d) $79{,}432 = \mathbf{7} \times 10000 + \mathbf{9} \times 1000 + \mathbf{4} \times 100 + \mathbf{3} \times 10 + \mathbf{2} \times 1$
(e) $80{,}691 = \mathbf{8} \times 10000 + \mathbf{0} \times 1000 + \mathbf{6} \times 100 + \mathbf{9} \times 10 + \mathbf{1} \times 1$
(f) $20{,}083 = \mathbf{2} \times 10000 + \mathbf{0} \times 1000 + \mathbf{0} \times 100 + \mathbf{8} \times 10 + \mathbf{3} \times 1$
(g) $98{,}888 = 9 \times \mathbf{10000} + 8 \times \mathbf{1000} + 8 \times \mathbf{100} + 8 \times \mathbf{10} + 8 \times \mathbf{1}$
(h) $71{,}266 = 7 \times \mathbf{10000} + 1 \times \mathbf{1000} + 2 \times \mathbf{100} + 6 \times \mathbf{10} + 6 \times \mathbf{1}$
(i) $35{,}671 = 3 \times \mathbf{10000} + 5 \times \mathbf{1000} + 6 \times \mathbf{100} + 7 \times \mathbf{10} + 1 \times \mathbf{1}$

6. (b) 1 thousands + 3 hundreds + 5 tens + 6 ones = **1,356**
(c) 2 ten thousands + 4 thousands + 8 hundreds + 5 tens + 2 ones = **24,852**
(d) 7 ten thousands + 6 thousands + 4 hundreds + 1 tens + 7 ones = **76,417**
(e) 4 ten thousands + 6 hundreds + 2 tens = **40,620**
(f) 5 thousands + 9 ones = **5,009**
(g) $6 \times 10000 + 3 \times 1000 + 2 \times 100 + 1 \times 10 + 6 \times 1 = \mathbf{63{,}216}$
(h) $5 \times 1000 + 1 \times 100 + 5 \times 1 = \mathbf{5{,}105}$
(i) $8 \times 10{,}000 + 6 \times 1000 + 5 \times 10 + 7 \times 1 = \mathbf{86{,}057}$
(j) $4 \times 10{,}000 + 5 \times 1000 + 3 \times 10 + 7 \times 1 = \mathbf{45{,}037}$
(k) $8 \times 10{,}000 + 5 \times 1000 + 3 \times 10 + 7 \times 1 = \mathbf{85{,}037}$
(l) $4000 + 400 + 30 + 1 = \mathbf{4{,}431}$
(m) $5000 + 20 + 3 = \mathbf{5{,}023}$
(n) $20000 + 6000 + 800 + 70 + 6 = \mathbf{26{,}876}$

7. (a) $8{,}818 = 8000 + 800 + 10 + 8$
(b) $9425 = 9000 + 400 + 20 + 5$
(c) $6{,}051 = 6000 + 0 + 50 + 1$
(d) $5{,}003 = 5000 + 0 + 0 + 3$
(e) $3{,}408 = 3000 + 400 + 0 + 8$
(f) $6{,}751 = 6000 + 700 + 50 + 1$
(g) $38{,}414 = 30000 + 8000 + 400 + 10 + 4$
(h) $29{,}303 = 20000 + 9000 + 300 + 0 + 3$
(i) $52{,}005 = 50000 + 2000 + 0 + 0 + 5$
(j) $23{,}409 = 20000 + 3000 + 400 + 0 + 9$

(k) $22,416 = 20000 + 2000 + 400 + 10 + 6$
(l) $12,030 = 10000 + 2000 + 0 + 30 + 0$
(m) $79,324 = 70000 + 9000 + 300 + 20 + 4$
(n) $40,004 = 40000 + 0 + 0 + 0 + 4$

8. (a) $300 + 20 + 1 = 321$
(b) $200 + 4 = 204$
(c) $1000 + 200 + 60 + 5 = 1,265$
(d) $6000 + 600 + 60 + 3 = 6,663$
(e) $80000 + 5000 + 900 + 20 + 8 = 85,928$
(f) $40000 + 400 + 50 + 3 = 40,453$
(g) $2000 + 3 = 2003$
(h) $70000 + 7000 + 600 + 80 + 5 = 77,685$
(i) $2000 + 400 + 90 + 7 = 2,497$
(j) $30000 + 4000 + 40 + 3 = 34,043$
(k) $20000 + 200 + 3 = 20, 203$
(l) $50000 + 7000 + 100 + 90 + 8 = 57,198$
(m) $60000 + 4000 + 300 + 80 + 4 = 64,384$

Exercise- 2.5

1.

(a)	3,124 ◯	2,689 ✗	4,924 ✓	4,259 ◯
(b)	4,057 ✗	4,852 ◯	8,137 ◯	8,173 ✓
(c)	1,987 ✗	2,000 ◯	2,999 ✓	2,001 ◯
(d)	1,728 ◯	9,381 ✓	8,457 ◯	1,235 ✗
(e)	9,989 ✓	9,819 ✗	9,899 ◯	9,879 ◯
(f)	6,023 ✗	6,203 ◯	6,302 ◯	6,320 ✓

2.

(a) 237 < 1,201	(b) 3,645 > 98	(c) 5,421 > 5,412
(d) 9,781 < 9,871	(e) 1,212 = 1,212	(f) 8,064 > 7,065
(g) 1,972 < 9,172	(h) 8,018 < 8,109	(i) 3,582 < 3,590

3. (a) $3,420 < 4,000 < 4,012 < 4,388$
(b) $8 < 88 < 888 < 8,888$
(c) $298 < 3,285 < 3,469 < 4,061$
(d) $1,189 < 1,289 < 1,892 < 1,982$
(e) $999 < 9,099 < 9,909 < 9,990$
(f) $6,143 < 6,314 < 6,341 < 6,431$

4. (a) $5,080 > 4,852 > 4,295 > 4,172$
(b) $8,173 > 8,157 > 8,137 > 3,875$
(c) $7,649 > 7,549 > 7,496 > 7,459$
(d) $8,291 > 8,192 > 8,129 > 8,091$
(e) $1,321 > 1,312 > 1,213 > 1,123$
(f) $5,619 > 5,032 > 4,807 > 4,523$

5. (a) $9999 + 1 =$ **10,000**
(b) $999 - 1 =$ **998**
(c) $1000 + 1 =$ **1001**

6. (a) $3,787 + 1 = 3,788$
(b) $899 + 1 = 900$
(c) $277 + 1 = 278$
(d) $319 + 1 = 320$

(e) $4,176 + 1 = 4,177$ (f) $2,218 + 1 = 2,219$
(g) $60,234 + 1 = 60,235$ (h) $91,713 + 1 = 91,714$
(i) $6,000 + 1 = 6,001$ (j) $20000 + 1 = 20,001$
(k) $18,163 + 1 = 18,164$ (l) $97965 + 1 = 97,966$
(m) $30,298 + 1 = 30,299$ (n) $28533 + 1 = 28,534$
(o) $3,86,214 + 1 = 3,86,215$

7. (a) $770 - 1 = 769$ (b) $360 - 1 = 259$
(c) $449 - 1 = 448$ (d) $557 - 1 = 556$
(e) $889 - 1 = 888$ (f) $6,700 - 1 = 6699$
(g) $5,733 - 1 = 5732$ (h) $3,230 - 1 = 3229$
(i) $8,975 - 1 = 8974$ (j) $7999 - 1 = 7998$
(k) $88,216 - 1 = 88215$ (l) $80,000 - 1 = 79999$
(m) $57,000 - 1 = 56999$ (n) $2,00,000 - 1 = 1,99,999$
(o) $37,602 - 1 = 37601$

8.

	Predecessor	Number	Successor
(a)	**72,155**	72,156	**72,157**
(b)	**35,999**	36,000	**36,001**
(c)	**23,199**	23,200	**23,201**
(d)	**34,321**	34,322	**34,323**
(e)	**4,999**	5,000	**5,001**
(f)	**59,999**	60,000	**60,001**
(g)	**37,092**	37,093	**37,094**
(h)	**8,89,021**	8,89,022	**8,89,023**

9.

	Predecessor	Number	Successor
(a)	3,762	**3,763**	3,764
(b)	2,000	**2,001**	2,002
(c)	6,497	**6,498**	6,499
(d)	8,999	**9,000**	9,001
(e)	38,213	**38,214**	38,215
(f)	5,201	**5,202**	5,203
(g)	7,999	**8,000**	8,001
(h)	62,059	**62,060**	62,061
(i)	34,822	**34,823**	34,824

Exercise- 2.6

1.

	Digits	Greatest Number	Smallest Number
(a)	3, 8, 2, 1	**8,321**	**1,238**
(b)	5, 6, 0, 3	**6,530**	**3,056**
(c)	9, 5, 8, 7	**9,875**	**5,789**
(d)	0, 2, 4, 6	**6,420**	**2,046**

2. (a) 4,531; 4,631; **4,731**; **4,831**; **4,931**; **5,031**
(b) 5,287; 5,387; **5,487**; **5,587**; **5,687**; **5,787**
(c) 1,872; 1,972; **2,072**; **2,172**; **2,272**; **2,372**
(d) 6,594; 6,694; **6,794**; **6,894**; **6,994**; **7,094**

3. (a) 1,045; 2,045; **3,045**; **4,045**; **5,045**; **6,045**
(b) 3,986; 4,986; **5,986**; **6,986**; **7,986**; **8,986**
(c) 2,105; 3,105; **4,105**; **5,105**; **6,105**; **7,105**
(d) 4,999; 5,999; **6,999**; **7,999**; **8,999**; **9,999**

4. (a) (iii) (b) (v) (c) (i) (d) (viii)
(e) (ii) (f) (iv) (g) (vii) (h) (vi)

5. Even numbers
36, 548, 90, 12, 480, 14, 386, 504, 82, 94, 938, 648
Odd numbers
839, 65, 637, 473, 95, 39, 15, 61, 231, 27, 59, 93

Exercise- 2.7

1. (a) 1,460, 1,465; **1,470**; **1,475**; **1,480**
(b) 4,562, 4,557; **4,552**; **4,547**; **4,542**

2. (a) 2,584, 2,594; **2,604**; **2,614**; **2,624**
(b) 8,723, 8,713; **8,703**; **8,693**; **8,683**

3. (a) 8,869, 8,969; **9,069**; **9,169**; **9,269**
(b) 2,126, 2,026; **1,926**; **1,826**; **1,726**

4. (a) 3,429; **4,429**; 5,429; **6,429**; **7,429**
(b) 5,242; **4,242**; 3,242; **2,242**; **1,242**

5. (a) $3006 + 1000 = 4,006$ (b) $3006 - 1000 = 2,006$
(c) $3006 + 100 = 3,106$ (d) $3006 - 100 = 2,906$

6. (a) 8,212; 8,312; 8,412; **8,512**; **8,612**; **8,712**
(b) 999,999; 99,999; 9,999; **999**; **99**; **9**
(c) 3,100; 3,095; 3,090; **3,085**; **3,080**; **3,075**
(d) 5,284; 5,288; 5,292; **5,296**; **5,300**; **5,304**
(e) 20; 200; 2,000; **20,000**; **2,00,000**; **20,00,000**
(f) 3,650; 3,750; 3,850; **3,950**; **4,050**; **4,150**
(g) 45,300; 55,300; 65,300; **75,300**; **85,300**; **95,300**
(h) 28,076; 28,176; 28,276; **28,376**; **28,476**; **28,576**
(i) 40,921; 40,911; 40,901; **40,891**; **40,881**; **40,871**
(j) 53,456; 53,462; 53,468; **53,474**; **53,480**; **53,486**

7. (a) 6,126; **6,127**; **6,128**; **6,129**; **6,130**; **6,131**
(b) 7,000; **7,001**; **7,002**; **7,003**; **7,004**; **7,005**
(c) 14,201; **14,202**; **14,203**; **14,204**; **14,205**; **14,206**
(d) 20,405; **20,406**; **20,407**; **20,408**; **20,409**; **20,410**
(e) 8,999; **9,000**; **9,001**; **9,002**; **9,003**; **9,004**

8. (a) 2,000; **1,999**; **1,998**; **1,997**; **1,996**; **1,995**
(b) 3,894; **3,893**; **3,892**; **3,891**; **3,890**; **3,889**
(c) 7,087; **7,086**; **7,085**; **7,084**; **7,083**; **7,082**
(d) 89,999; **89,998**; **89,997**; **89,996**; **89,995**; **89,994**
(e) 90,835; **90,834**; **90,833**; **90,832**; **90,831**; **90,830**

Exercise- 2.8

1. (a) $66 \rightarrow 70$ (b) $44 \rightarrow 40$ (c) $19 \rightarrow 20$ (d) $11 \rightarrow 10$
(e) $163 \rightarrow 160$ (f) $922 \rightarrow 920$ (g) $435 \rightarrow 440$ (h) $288 \rightarrow 290$
2. (a) $127 \rightarrow 100$ (b) $351 \rightarrow 400$ (c) $726 \rightarrow 700$ (d) $865 \rightarrow 900$
(e) $1842 \rightarrow 1800$ (f) $1177 \rightarrow 1200$ (g) $2288 \rightarrow 2300$ (h) $6364 \rightarrow 6400$
3. (a) $979 \rightarrow 1000$ (b) $1764 \rightarrow 2000$
(c) $8287 \rightarrow 8000$ (d) $5641 \rightarrow 6000$
(e) $12350 \rightarrow 12000$ (f) $6800 \rightarrow 7000$
(g) $45255 \rightarrow 45000$ (h) $18390 \rightarrow 18000$
4. (a) 8700 (b) 2700 (c) 9000
5.

	Attendance	Nearest 1000	Nearest 100	Nearest 10
a.	5721	6000	5700	5720
b.	6909	7000	6900	6910
c.	8004	8000	8000	8000
d.	8499	8000	8500	8500

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

MCQs

1. (c) **2.** (b) **3.** (a) **4.** (b)

Mental Maths

Number is 3,636
Reverse order 6,363
New number greater than original number

Test Exercise

1. 5,199; **5,200**; **5,201**; **5,202**; **5,203**; **5,204**
2. 1,668; 1,670; 1,672; **1,674**; **1,676**; **1,678**; **1,680**
3. 7,608 = Seven thousand six hundred and eight
4. 2,552
5. 9 thousands + 5 hundreds + 6 tens + 7 ones = 9,567
6. 8,213 = 8,000 + 200 + 10 + 3

7. (a) 6,**5**12 = 500 (b) **6**,381 = 6,000

8. 9,390 – 1 = 9,389 **9.** 6,089 + 1 = 6,090

10. (a) 3,123 (>) 3,112 (b) 7,200 (<) 7,989

(c) 5,032 (=) 5,032

11. 1,858 < 2,598 < 6,128 < 7,073 **12.** 6,656 > 6,056 > 5,921 > 5,836

13. (a) 2, 3, 0, 5
Greatest number 5320
Smallest number 2035

(b) 1, 6, 2, 3
Greatest number 6321
Smallest number 1236

14. (a) Less people on Wednesday
(b) It costs more at local shop
(c) 2,000 + 1 = 2,001 shops in the mall now
(d) 4000 – 10 = 3990 people remained in the shop

❍❍❍

3 Roman Numerals

Exercise- 3.1

1. (a) 8 = VIII (b) 1 = I (c) 25 = XXV (d) 1000 = M
(e) 19 = XIX (f) 100 = C (g) 30 = XXX (h) 200 = CC
(i) 49 = XLIX (j) 75 = LXXV (k) 500 = D (l) 90 = XC

2. (a) VII = 7 (b) XIV = I4 (c) D = 500 (d) L = 50
(e) XLIII = 43 (f) X = 10 (g) XX = 20 (h) XVIII = 18
(i) XLV = 45 (j) LII = 52 (k) CX = 110 (l) DC = 600

3. (a) IV (<) VI (b) XI (>) IX (c) VI (<) VII (d) X (<) XI
(e) V (>) IV (f) XV (<) XX

4. (a) 11 (<) XIX (b) XX (>) 15 (c) XVI (=) 16 (d) 15 (<) XVII
(e) 2 + 2 (=) IV (f) 10 + 9 (>) XVI

5. (a) IV < VI < VII < IX (b) IX < XIV < XIX < XXV
(c) XL < XLIV < LII < LX

6. (a) IX > VIII > V > IV (b) XXX > XXV > XIX > XIV
(c) LX > LI > XLIX > XL

7. (a) 2:00 (b) 8:30 (c) 6:00 (d) 2:30
(e) 4:00 (f) 9:30

8. (a) I (b) IX (c) VII (d) X
(e) IV

9. (a) Roman numbers (b) V, L, D
(c) I, X, C (d) 3

10. (a) II + II = 2 + 2 = 4 = $\boxed{\text{IV}}$ (b) IV + VI = 4 + 6 = 10 = $\boxed{\text{X}}$
(c) IV + IX = 4 + 9 = 13 = $\boxed{\text{XIII}}$ (d) VII + V = 7 + 5 = 12 = $\boxed{\text{XII}}$
(e) XI + V = 11 + 5 = 16 = $\boxed{\text{XVI}}$ (f) IX + IX = 9 + 9 = 18 = $\boxed{\text{XVIII}}$
(g) XLIII + IX = 43 + 9 = 52 = $\boxed{\text{LII}}$ (h) LXXXVIII + II = 88 + 2 = 90 = $\boxed{\text{XL}}$
(i) XC + X = 90 + 10 = 100 = $\boxed{\text{C}}$

11. (a) X − V = 10 − 5 = 5 = $\boxed{\text{V}}$ (b) XI − IV = 11 − 4 = 7 = $\boxed{\text{VII}}$
(c) IX − VI = 9 − 6 = 3 = $\boxed{\text{III}}$ (d) XX − VI = 20 − 6 = 14 = $\boxed{\text{XIV}}$
(e) XXX − IX = 30 − 9 = 21 = $\boxed{\text{XXI}}$ (f) L − X = 50 − 10 = 40 = $\boxed{\text{XL}}$
(g) LX − XIII = 60 − 13 = 47 = $\boxed{\text{XLVII}}$ (h) C − L = 100 − 50 = 50 = $\boxed{\text{L}}$
(i) XC − X = 90 − 10 = 80 = $\boxed{\text{LXXX}}$

12. XXXI; XXXII; XXXIII; XXXIV; XXXV; XXXVI; XXXVII; XXXVIII; XXXIX; XL

MCQs

1. (b) **2.** (b) **3.** (a) **4.** (b)

Mental Maths

(a) 

(b) 

(c) 

Test Exercise

1. (a) 28 = **XXVIII** (b) 45 = **XLV** (c) 20 = **XX** (d) 16 = **XXVI**
2. (a) XVII = **17** (b) XLI = **41** (c) XXXIX = **39** (d) 1V = **4**
3. (a) XI (>) VIII (b) XXIV (=) XXIV
(c) XXXIV (<) XXXVI (d) VIII (>) V
4. (a) XXV + VII = $\boxed{\text{XXXII}}$
(25) + (7) = (32)
(b) XXII − XI = $\boxed{\text{XI}}$
(22) − (11) = (11)
5. (a) 20 + 10 = (30)
$\boxed{\text{XX}}$ + $\boxed{\text{X}}$ = $\boxed{\text{XXX}}$
(b) 6 − 4 = (2)
$\boxed{\text{VI}}$ − $\boxed{\text{IV}}$ = $\boxed{\text{II}}$
6. IX < XI < XVI < XXVI < XXXVIII
7. XLVIII > XLII > XXXIV > XXIII > XVII
8. IV → 4, XII → 12, XIX → 19, VI → 6, VII → 7, XIV → 14, XXI → 21, IX → 9

4 Addition

Exercise- 4.1

1. (a)

	T	O
	5	2
+	3	5
	8	7

(b)

	T	O
	3	6
+	1	8
	5	4

(c)

	T	O
	4	2
+	2	7
	6	9

(d)

	H	T	O
	1	3	8
+	3	6	1
	4	9	9

(e)

	H	T	O
	2	4	5
+	4	2	3
	6	6	8

(f)

	H	T	O
	6	7	1
+	1	1	8
	7	8	9

(g)

	H	T	O
	1	0	6
+	4	0	8
	5	1	4

(h)

	H	T	O
	3	7	8
+	2	2	4
	6	0	2

(i)

	H	T	O
	5	6	3
+	3	4	9
	9	1	2

(j)

	H	T	O
	6	4	2
+	2	8	7
	9	2	9

(k)

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

(l)

	H	T	O
	6	7	8
+	1	2	7
	8	0	5

Exercise- 4.2

1. (a) $8256 + 2432 = \mathbf{2432} + 8256$ (b) $\mathbf{0} + 7216 = 7216 + \mathbf{0}$

(c) $2999 + 3404 = \mathbf{3404} + 2999$

(d) $\mathbf{8156} + 5163 = 8156 + \mathbf{5163}$

(e) $3487 + \mathbf{2249} = 2249 + \mathbf{3487}$

(f) $3873 + 2956 + 5321 = 5321 + \mathbf{3873} + 2954$

(g) $215 + 6547 + 70971 = 215 + \mathbf{6547} + 70971$

(h) $8776 + 1 = 1 + \mathbf{8776}$

(i) $2819 + 1364 + 3761 = \mathbf{3761} + 2819 + 1364$

(j) $70765 + 0 = \mathbf{0} + 70765$

(k) $\mathbf{247} + 1163 = 247 + \mathbf{1163}$

(l) $497 + 734 + 363 = 363 + \mathbf{734} + 497$

(m) $2741 + 100 = \mathbf{100} + 2741$

(n) $3819 + 4606 + 5003 = 5003 + \mathbf{3819} + 4606$

(o) $3570 + 2893 + \mathbf{4791} = 4791 + 3570 + \mathbf{2893}$

(p) $7409 + \mathbf{1834} + 3176 = 3176 + 1834 + 7409$

Exercise- 4.3

1. (a)

	Th	H	T	O
	4	1	5	3
+	1	3	4	2
	5	4	9	5

(b)

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

(c)

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

(d)

	Th	H	T	O
	5	6	8	2
+	3	2	0	6
	8	8	8	8

(e)

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

(f)

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

(g)

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

(h)

	Th	H	T	O
	9	0	3	2
+	0	9	6	7
	9	9	9	9

(i)

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

(j)

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

(k)

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

(l)

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

2. (a)

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

(b)

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

(c)

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

(d)

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

(e)

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

(f)

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

(g)

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

(h)

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

(i)

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

Exercise- 4.4

1. (a)

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

(b)

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

(c)

	Th	H	T	O
	①	◯	◯	
	7	6	6	0
+	1	7	3	7
	9	3	9	7

(d)

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

(e)

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

(f)

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

(g)

	H	T	O
	①	①	
	3	8	4
+	2	2	9
	6	1	3

(h)

	H	T	O
	①	①	
	6	2	7
+	2	9	5
	9	2	2

(i)

	H	T	O
	◯	①	
	2	4	1
	2	3	8
+	5	1	4
	9	9	3

(j)

	H	T	O
◯	◯	①	
	2	0	2
	2	4	5
+	2	2	4
	6	7	1

(k)

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

(l)

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

(m)

	H	T	O
◯	①	①	
	2	2	8
	2	9	7
+	1	6	3
	6	8	8

(n)

	H	T	O
◯	①	①	
	5	1	4
	1	9	9
+	2	6	3
	9	7	6

(o)

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

2. (a)

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

(b)

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

(c)

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

(d)

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

(e)

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

(f)

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

(g)

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

(h)

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

(i)

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

(j)

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

(k)

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

(l)

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

(m)

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

(n)

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

(o)

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

(p)

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

(q)

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

(r)

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

3. (a)

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

(b)

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

(c)

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

(d)

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

(e)

Th	H	T	O
	①		
3	2	3	5
+ 5	5	8	3
8	8	1	8

(f)

Th	H	T	O
	①	①	
1	9	9	9
+ 6	3	9	9
8	3	9	8

(g)

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

(h)

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

Exercise- 4.5

1. (a) 8 2 + 1 0 = 92

(b) 9 5 7 + 10 = 967

(c) 1 2 1 9 + 30 = 1249

(d) 2 1 3 8 + 50 = 2188

(e) 1 3 3 1 + 3 0 0 = 1631

(f) 4 1 7 + 400 = 817

(g) 8 3 1 4 + 100 = 8414

(h) 8 4 7 9 + 200 = 8679

(i) 2 3 5 7 + 3 0 0 0 = 5357

(j) 3 1 1 7 + 4 0 0 0 = 7117

(k) 3 2 1 5 + 3 0 0 0 = 6215

(l) 7 0 0 7 + 1 0 0 0 = 8007

(m) 3 0 0 + 9 3 5 9 = 9659

(n) 6 0 0 0 + 2 0 0 0 = 8000

2. (a)

	Th	H	T	O
	1	9	9	9
+	6	0	0	0
	7	9	9	9

(b)

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

(c)

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

(d)

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

(e)

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

(f)

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

(g)

	Th	H	T	O
		1		
	6	1	7	5
+			5	0
	6	2	2	5

(h)

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

(i)

	Th	H	T	O
	1	0	9	5
+		3	0	0
	1	3	9	5

(j)

	Th	H	T	O
	5	5	9	3
+		3	0	0
	5	8	9	3

(k)

	Th	H	T	O
	1			
	5	1	1	0
+		9	0	0
	6	0	1	0

(l)

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

(m)

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

(n)

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

Mental Maths

5749			8144			3060		
5739	+	10	7144	+	1000	3050	+	10
5649	+	100	8034	+	110	2960	+	100
4749	+	1000	7144	+	1000	2060	+	1000

Exercise- 4.6

1. School A has = 3 1 9 4 students

School B has = + 2 9 9 7 students

Total students in all = 6 1 9 1

	Th	H	T	O
	①	①	①	

2. Mango trees =
Apple trees =
Peach trees =
Total trees =

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

3. Egg sold in Ist week =
Egg sold in IInd week =
Total eggs sold =

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

4. People see cricket match =
People see hockey match =
Total people went to see match =

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

5. Students travel by car =
Students travel by bus =
Students walked to school =
Students in school =

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

6. Bulbs produced on Ist day =
Bulbs produced on IInd day =
Bulb produced in 2 days =

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

7. In party men =
In party women =
In party children =
People present in party =

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

8. Students in DCS =
More students joined =
Total strength =

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

9. Runs scored in ODI =
Runs scored in Tests =
Total runs scored =

	Th	H	T	O
		①		
	1	2	4	3
+	1	1	7	4
	2	4	1	7

10. Apple trees =
Peach trees =
Total trees in orchard =

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

11. Bananas purchased =
Apples purchased =
Total fruits purchased =

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

12. Tickets sold in Ist half =
Tickets sold in IInd half =
Total tickets sold =

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

13. Population in Ist village =
Population in IInd village =
Population in IIIrd village =
Total population =

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

14. Bulbs produced in Ist month =
Bulbs produced in IInd month =
Total number of bulb produced =

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

15.

		Th	H	T	O
		①	①	①	
Wheat bags =		2	8	0	5	4
Rice bags =		3	9	4	2	3
Barley bags =	+		8	7	9	1
Total bags =		7	6	2	6	8

16.

		Th	H	T	O
Boys in school =		1	2	0	5
Girls in school =	+	1	3	1	2
Number of students in school =		2	5	1	7

17.

		Th	H	T	O
			①		
Books for primary section =		5	3	6	5
Books for senior section =	+	4	3	7	0
Books in school library =		9	7	3	5

18.

		Th	H	T	O
		①	①	①	
Mr. Shah bought pencil =		2	9	3	6
Mr. Shah bought erasers =		2	3	6	8
Mr. Shah bought notebooks =	+	3	0	0	0
Total stationary bought =		8	3	0	4

19.

		Th	H	T	O
			①		
Raj saved =		₹ 3	2	5	0
Rohan saved =	+	₹ 4	6	7	5
Total money saved =		₹ 7	9	2	5

20.

		H	T	O
Ruchi distributed toffees on diwali =		2	5	7
Ruchi distributed toffees on christmas =	+	3	2	0
Total distributed toffees =		5	7	7

Exercise- 4.7

1. (a)

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

(b)

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

(c)

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

(d)

Th	H	T	O
3	5	8	0
+ 3	0	0	9
6	5	8	9

MCQs

1. (b) **2.** (a) **3.** (a) **4.** (b)

5. (a)

Mental Maths

(a)

	R	E	A	D
+	T	E	R	M
B	G	I	H	F

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

(b)

	P	A	I	D
+	T	O	Y	S
1	4	5	3	1

	1	1		
5	0	8	3	
+ 9	4	4	8	
1	4	5	3	1

(c)

	M	A	T	H
+		E	N	G
	2	5	3	3

	1	1		
2	0	9	7	
+	4	3	6	
2	5	3	3	

(d)

	P	L	A	Y
+	G	A	M	E
1	1	1	2	8

5	1	0	4	
+ 6	0	2	4	
1	1	1	2	8

(e)

	G	O	O	D
+		J	O	B
	7	3	8	4

1				
6	4	4	3	
+	9	4	1	
7	3	8	4	

(f)

	M	O	R	E
+	T	R	E	E
1	2	2	1	8

1	1			
2	4	7	4	
+ 9	7	4	4	
1	2	2	1	8

Test Exercise

1. (a)

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

(b)

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

(c)

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

(d)

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

(e)

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

(f)

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

2. (a)

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

(b)

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

(c)

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

(d)

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

(e)

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

(f)

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

3. (a)

								①							
		4	6	2	1	=		4000	+	600	+	20	+	1	
+		6	6	6	6	=	+	6000	+	600	+	60	+	6	
1	1	2	8	7		=		11000	+	200	+	80	+	7	= 11287

(b)

												①			
		1	0	0	2	=		1000	+	000	+	00	+	2	
+		9	7	7	9	=	+	9000	+	700	+	70	+	9	
1	0	7	8	1		=		10000	+	700	+	80	+	1	= 10781

(c)

		①	①	①				①		①		①			
		2	6	5	8	=		2000	+	600	+	50	+	8	
+		8	5	6	7	=	+	8000	+	500	+	60	+	7	
1	1	②	2	5		=		11000	+	200	+	20	+	5	= 11225

4. (a)

2876	→	2880
4905	→	4900
9056	→	+9060
		16840

(b)

1111	→	1100
6590	→	6600
8744	→	+8700
		16400

5.

							①		
English books in library	=			1	0	0	0
Hindi books in library	=			1	2	4	0
Mathematics books in library	=	+	1	6	8	7
Total books in library	=		3	9	2	7

6.

					①		
Original number is	=		7	5	8	2
More	=	+		2	4	6
Number is	=		7	8	2	8

7. (a) Twenty seven increased by seven
(b) Eleven is added to eighty eight
(c) Sum of one hundred fifty eight and forty two
(d) Three hundred thirty one increased by four hundred forty four

8. (a) False (b) True
(c) False (d) False

5

Subtraction

Exercise- 5.1

1. (a)

	T	O
	5	4
–	2	3
	3	1

(b)

	T	O
	6	8
–	2	4
	4	4

(c)

	T	O
	3	3
–	1	2
	2	1

(d)

	T	O
	5	7
–	2	6
	3	1

(e)

	T	O
	5	6
–	2	4
	3	2

(f)

	T	O
	8	8
–	4	7
	4	1

(g)

	H	T	O
	8	4	9
–	3	3	4
	5	1	5

(h)

	H	T	O
	7	7	7
–	5	6	4
	2	1	3

(i)

	H	T	O
	2	2	3
–	2	1	1
	0	1	2

(j)

	H	T	O
	6	8	3
–	2	4	1
	4	4	2

(k)

	H	T	O
	7	1	9
–	2	1	8
	5	0	1

(l)

	H	T	O
	9	9	9
–	3	2	4
	6	7	5

Exercise- 5.2

1. (a) $96 - 0 = 96$ (b) $225 - 1 = 224$ (c) $900 - 900 = 0$

(d) $998 - 0 = 998$ (e) $607 - 607 = 0$ (f) $843 - 1 = 842$

(g) $900 - 1 = 899$ (h) $500 - 0 = 500$

Exercise- 5.3

1. (a)

	Th	H	T	O
	3	7	5	9
–	2	4	0	2
	1	3	5	7

(b)

	Th	H	T	O
	6	4	6	7
–	2	4	3	1
	4	0	3	6

(c)

	Th	H	T	O
	4	6	1	8
–	3	5	1	7
	1	1	0	1

(d)

Th	H	T	O
9	9	9	9
– 2	2	2	2
7	7	7	7

(e)

Th	H	T	O
4	7	3	2
– 2	2	1	0
2	5	2	2

(f)

Th	H	T	O
5	5	3	8
– 4	1	2	4
1	4	1	4

(g)

Th	H	T	O
5	6	5	6
– 3	3	3	3
2	3	2	3

(h)

Th	H	T	O
9	4	5	6
– 5	1	4	6
4	3	1	0

(i)

Th	H	T	O
9	5	2	9
– 6	2	0	8
3	3	2	1

(j)

Th	H	T	O
3	4	4	4
– 1	2	1	2
2	2	3	2

(k)

Th	H	T	O
4	6	7	5
– 2	4	2	2
2	2	5	3

(l)

Th	H	T	O
6	8	9	8
– 4	2	4	7
2	6	5	1

(m)

Th	H	T	O
3	5	9	4
– 2	1	7	0
1	4	2	4

(n)

Th	H	T	O
9	3	7	5
– 6	1	2	4
3	2	5	1

(o)

Th	H	T	O
5	0	9	7
– 2	0	4	5
3	0	5	2

(p)

Th	H	T	O
8	8	9	4
– 7	7	1	2
1	1	8	2

(q)

Th	H	T	O
6	8	3	4
– 1	4	3	2
5	4	0	2

(r)

Th	H	T	O
8	6	2	9
– 5	4	0	5
3	2	2	4

2. (a)

Th	H	T	O
9	3	4	8
– 5	3	2	0
4	0	2	8

(b)

Th	H	T	O
8	6	5	9
– 3	4	5	8
5	2	0	1

(c)

Th	H	T	O
7	5	7	6
– 2	3	5	0
5	2	2	6

(d)

Th	H	T	O
9	8	7	6
– 2	3	4	2
7	5	3	4

(e)

Th	H	T	O
7	5	6	9
– 3	4	5	9
4	1	1	0

(f)

Th	H	T	O
9	4	7	8
– 5	2	5	3
4	2	2	5

(g)

	Th	H	T	O
	7	3	4	9
–	4	2	0	8
	3	1	4	1

(h)

	Th	H	T	O
	3	8	6	8
–	2	3	2	3
	1	5	4	5

(i)

	Th	H	T	O
	5	9	6	2
–	3	0	5	1
	2	9	1	1

(j)

	Th	H	T	O
	5	4	3	2
–	1	2	3	1
	4	2	0	1

(k)

	Th	H	T	O
	9	8	7	6
–	6	7	6	6
	3	1	1	0

(l)

	Th	H	T	O
	8	8	8	8
–	5	5	5	5
	3	3	3	3

(m)

	Th	H	T	O
	4	5	4	5
–	1	2	1	2
	3	3	3	3

(n)

	Th	H	T	O
	8	3	2	1
–		3	2	1
	8	0	0	0

(o)

	Th	H	T	O
	6	8	5	9
–	3	2	3	4
	3	6	2	5

(p)

	Th	H	T	O
	6	3	5	6
–	2	3	4	3
	4	0	1	3

(q)

	Th	H	T	O
	9	3	1	2
–	9	1	1	1
	0	2	0	1

(r)

	Th	H	T	O
	8	8	6	6
–	6	6	4	4
	2	2	2	2

(s)

	Th	H	T	O
	5	1	0	0
–	4	0	0	0
	1	1	0	0

(t)

	Th	H	T	O
	3	0	0	3
–	2	0	0	2
	1	0	0	1

(u)

	Th	H	T	O
	5	9	8	7
–	3	6	4	3
	2	3	4	4

(v)

	Th	H	T	O
	6	8	5	9
–	3	3	3	3
	3	5	2	6

(w)

	Th	H	T	O
	6	7	8	9
–	1	2	3	4
	5	5	5	5

(x)

	Th	H	T	O
	7	6	2	5
–	4	6	0	4
	3	0	2	1

3. (a)

	Th	H	T	O
	6	3	6	8
–	3	3	6	5
	3	0	0	3

(b)

	Th	H	T	O
	2	9	9	7
–	2	8	8	5
	0	1	1	2

(c)

	Th	H	T	O
	6	7	3	1
–	4	3	2	0
	2	4	1	1

(d)

Th	H	T	O
5	6	6	4
– 4	4	4	5
1	2	1	9

(e)

Th	H	T	O
9	9	9	8
– 8	7	8	7
1	2	1	1

(f)

Th	H	T	O
9	8	1	0
– 5	7	0	0
4	1	1	0

(g)

Th	H	T	O
6	3	9	6
– 2	1	6	2
4	2	3	4

(h)

Th	H	T	O
5	4	7	8
– 3	2	5	7
2	2	2	1

(i)

Th	H	T	O
6	4	3	8
– 2	2	2	8
4	2	1	0

Exercise- 5.4

1. (a)

Th	H	T	O
	②	①	①
4	~~3~~	~~3~~	4
– 2	2	3	7
2	0	9	7

(b)

Th	H	T	O
		⑥	①
5	9	~~7~~	7
– 3	4	5	8
2	5	1	9

(c)

Th	H	T	O
	⑤	①	①
7	~~6~~	~~7~~	0
– 4	4	9	7
3	1	7	3

(d)

Th	H	T	O
⑧	①	①	①
~~9~~	~~9~~	~~4~~	3
– 6	9	5	4
2	9	8	9

(e)

Th	H	T	O
	⑤	①	①
8	~~6~~	~~7~~	5
– 5	5	8	9
3	0	8	6

(f)

Th	H	T	O
⑦	①	①	①
~~8~~	~~4~~	~~2~~	4
– 6	6	9	7
1	7	2	7

(g)

Th	H	T	O
⑦	①	①	①
~~8~~	~~3~~	~~8~~	6
– 4	6	9	9
3	6	8	7

(h)

Th	H	T	O
④	①	①	①
~~5~~	~~2~~	~~8~~	2
– 2	9	8	6
2	2	9	6

(i)

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

(j)

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

(k)

Th	H	T	O
	⑤	①	
9	~~6~~	2	3
– 4	4	3	1
5	1	9	2

(l)

Th	H	T	O
	⑤	①	
8	~~6~~	2	7
– 4	3	9	6
4	2	3	1

(m)

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

(n)

Th	H	T	O
	4	1	1
6	~~5~~	~~5~~	6
− 5	3	6	9
1	1	8	7

(o)

Th	H	T	O
	4	1	1
7	~~5~~	~~9~~	3
− 4	2	9	8
3	2	9	5

(p)

Th	H	T	O
	8	1	1
3	~~9~~	~~4~~	4
− 1	3	7	5
2	5	6	9

(q)

Th	H	T	O
7	1	1	1
8	~~6~~	~~8~~	3
− 7	7	8	5
0	8	9	8

(r)

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

2. (a)

Th	H	T	O
		3	1
9	3	~~4~~	8
− 5	3	2	9
4	0	1	9

(b)

Th	H	T	O
	5	1	1
8	~~6~~	~~5~~	7
− 3	4	5	8
5	1	9	9

(c)

Th	H	T	O
		6	1
7	5	~~7~~	6
− 2	3	5	8
5	2	1	8

(d)

Th	H	T	O
		6	1
9	8	~~7~~	6
− 2	3	4	8
7	5	2	8

(e)

Th	H	T	O
		5	1
7	5	~~6~~	1
− 3	4	5	9
4	1	0	2

(f)

Th	H	T	O
		6	1
9	4	~~7~~	0
− 5	2	5	8
4	2	1	2

(g)

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

(h)

Th	H	T	O
5	3	8	1
~~6~~	~~4~~	~~9~~	2
− 3	2	7	5
2	1	1	7

(i)

Th	H	T	O
7	15	11	1
~~8~~	~~6~~	~~2~~	3
− 4	9	7	4
3	6	4	9

(j)

Th	H	T	O
8	14	15	1
~~9~~	~~5~~	~~6~~	7
− 3	8	9	8
5	6	6	9

(k)

Th	H	T	O
5	12	11	1
~~6~~	~~3~~	~~2~~	1
− 4	8	9	4
1	4	2	7

(l)

Th	H	T	O
4	15	16	1
~~5~~	~~6~~	~~7~~	2
− 2	7	9	4
2	8	7	8

(m)

Th	H	T	O
6	9	15	1
~~7~~	~~0~~	~~6~~	2
– 5	2	9	7
1	7	6	5

(n)

Th	H	T	O
7	12	9	1
~~8~~	~~3~~	~~0~~	4
– 6	5	8	6
1	7	1	8

(o)

Th	H	T	O
5	11	12	1
~~6~~	~~2~~	~~3~~	0
– 4	8	9	2
1	3	2	8

(p)

Th	H	T	O
6	9	9	1
~~7~~	~~0~~	~~0~~	0
– 4	8	9	2
2	1	0	8

(q)

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

(r)

Th	H	T	O
5	9	9	1
~~6~~	~~0~~	~~0~~	3
– 3	4	5	8
2	5	4	5

(s)

Th	H	T	O
4	9	9	1
~~5~~	~~0~~	~~0~~	0
– 1	8	9	2
3	1	0	8

(t)

Th	H	T	O
3	9	11	1
~~4~~	~~0~~	~~2~~	0
– 1	9	4	8
2	0	7	2

(u)

Th	H	T	O
4	9	9	1
~~5~~	~~0~~	~~0~~	2
– 1	8	3	5
3	1	6	7

(v)

Th	H	T	O
1	11	13	1
~~2~~	~~2~~	~~4~~	0
– 1	8	6	5
0	3	7	5

(w)

Th	H	T	O
2	9	9	1
~~3~~	~~0~~	~~0~~	0
– 2	9	7	8
0	0	2	2

(x)

Th	H	T	O
3	9	1	1
~~4~~	~~0~~	~~7~~	0
– 1	8	9	4
2	1	7	6

3. (a)

Th	H	T	O
8	7	9	4
– 7	6	5	4
1	1	4	0

(b)

Th	H	T	O
6	9	9	1
~~7~~	~~0~~	~~0~~	7
– 4	6	7	9
2	3	2	8

(c)

Th	H	T	O
5	9	1	
~~6~~	~~0~~	~~0~~	5
– 4	6	9	3
1	3	1	2

(d)

Th	H	T	O
2	1	9	1
~~3~~	~~3~~	~~0~~	0
– 2	3	1	5
0	9	8	5

(e)

Th	H	T	O
0	5	1	1
~~7~~	~~6~~	~~3~~	4
– 2	0	4	8
5	5	8	6

(f)

Th	H	T	O
3	9	1	
~~4~~	~~0~~	0	0
– 2	8	1	0
1	1	9	0

(g)

Th	H	T	O
	8	9	1
~~3~~	~~9~~	~~0~~	2
− 1	0	9	3
2	8	0	9

(h)

Th	H	T	O
7	9	9	1
~~8~~	~~0~~	~~0~~	3
− 4	2	2	4
3	7	7	9

(i)

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

Exercise- 5.5

1. (a)

Th	H	T	O
4	1	3	1
~~5~~	1	~~4~~	0
− 3	5	0	5
1	6	3	5

Checking

Th	H	T	O	
1		1		
1	6	3	5	difference
+ 3	5	0	5	
5	1	4	0	

(b)

Th	H	T	O
7	9	9	1
~~8~~	~~0~~	~~0~~	0
− 6	4	6	5
1	5	3	5

Checking

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

(c)

Th	H	T	O
7	1	1	
~~8~~	~~3~~	4	8
− 5	7	5	2
2	5	9	6

Checking

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

(d)

Th	H	T	O
4	1	1	1
~~5~~	~~2~~	5	3
− 1	6	6	5
3	5	8	8

Checking

Th	H	T	O	
1	1	1		
3	5	8	8	difference
+ 1	6	6	5	
5	2	5	3	

(e)

Th	H	T	O
③	①	②	①
~~4~~	5	~~3~~	1
− 3	7	1	6
0	8	1	5

Checking

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

(f)

Th	H	T	O
⑤	①	①	①
~~6~~	~~1~~	~~2~~	0
− 4	2	6	1
1	8	5	9

Checking

Th	H	T	O	
①	①	①		
1	8	5	9	difference
+ 4	2	6	1	
6	1	2	0	

(g)

Th	H	T	O
⑥	①	①	
~~7~~	~~2~~	6	3
− 4	2	7	1
2	9	9	2

Checking

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

(h)

Th	H	T	O
③	①	①	①
~~4~~	~~3~~	~~4~~	2
− 2	3	4	3
1	9	9	9

Checking

Th	H	T	O	
①	①	①		
1	9	9	9	difference
+ 2	3	4	3	
4	3	4	2	

2. (a)

Th	H	T	O
5	6	9	2
− 2	1	7	2
3	5	2	0

Checking

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

(b)

TTh	Th	H	T	O
3	7	5	4	3
− 1	3	3	2	0
2	4	2	2	3

Checking

TTh	Th	H	T	O	
2	4	2	2	3	difference
+ 1	3	3	2	0	
3	7	5	4	3	

(c)

TTh	Th	H	T	O
	⑥	①	①	①
6	~~7~~	~~6~~	~~2~~	1
− 1	3	9	1	5
5	3	7	0	6

Checking

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

(d)

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

Checking

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

(e)

TTh	Th	H	T	O
	④	①	①	
6	~~5~~	~~4~~	~~2~~	5
− 1	4	9	6	2
5	0	4	6	3

Checking

TTh	Th	H	T	O	
	①	①			
5	0	4	6	3	difference
+ 1	4	9	6	2	
6	5	4	2	5	

(f)

TTh	Th	H	T	O
③	⑨	⑨	⑨	①
~~4~~	~~0~~	~~0~~	~~0~~	0
−	2	2	3	4
3	7	7	6	6

Checking

TTh	Th	H	T	O	
①	①	①	①		
3	7	7	6	6	difference
+	2	2	4	4	
4	0	0	0	0	

(g)

TTh	Th	H	T	O
②	⑨	⑨	⑨	①
~~3~~	~~0~~	~~0~~	~~0~~	0
−	7	5	6	2
2	2	4	3	8

Checking

TTh	Th	H	T	O	
①	①	①	①		
2	2	4	3	8	difference
+	7	5	6	2	
3	0	0	0	0	

(h)

L	TTh	Th	H	T	O
		⑦	⑨	①	①
8	6	~~8~~	~~0~~	~~5~~	3
−		6	1	7	6	7
8	0	6	2	8	6

Checking

L	TTh	Th	H	T	O	
			①	①	①	
8	0	6	2	8	6	difference
+		6	1	7	6	7
8	6	8	0	5	3	

(i)

TTh	Th	H	T	O
	③	①	④	① ①
	~~4~~	0	~~5~~	~~6~~ 2
– 2	3	2	9	5
1	7	2	6	7

Checking

TTh	Th	H	T	O	
	①		①	①	
1	7	2	6	7	difference
+ 2	3	2	9	5	
4	0	5	6	2	

(j)

TTh	Th	H	T	O
	⑦	⑨	⑨	① ①
	~~8~~	~~0~~	~~0~~	~~5~~ 1
–	1	3	5	6
7	8	6	9	5

Checking

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

(k)

Th	H	T	O
⑧	⑰	⑪	①
~~9~~	~~8~~	2	0
– 2	9	2	4
6	8	9	6

Checking

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

(l)

TTh	Th	H	T	O
		⑧	①	①
	~~9~~	3	~~9~~	~~2~~ 1
–		3	2	8 5
9	0	6	3	6

Checking

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

Exercise- 5.6

1. Students in school = 1 ~~9~~ 2 6 (Th H T O; ⑧ ①)

Girls in school = – 1 0 6 5

Boys in school = 8 6 1

2. Total pens =

Blue pens =

Black pens =

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

3. Total seats =

Seats occupied =

Seats empty =

	Th	H	T	O
		⑨	⑨	①
	1	~~0~~	~~0~~	0
−		8	2	5
		1	7	5

4. Mrs. Sharma had in her account =

Mrs. Sharma withdrew =

Money remained in account =

	Th	H	T	O
		⑦ ①		
	₹	~~8~~	4	5 0
−	₹	5	6	5 0
	₹	2	8	0 0

5. Shopkeeper had watches =

Watches sold =

Watches left =

	Th	H	T	O
		② ①		
		~~3~~	2	5 0
−	1	5	1	0
	1	7	4	0

6. Total cars =

Maruti cars sold =

Hyundai cars sold =

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

7. Runs scored by Suresh =

Runs scored by Rahul =

Suresh scored more runs by =

	Th	H	T	O
			⑦	①
	1	5	~~8~~	0
−	1	3	0	9
	0	2	7	1

8.

	Th	H	T	O
			⑦	①
	3	8	~~8~~	5
−	1	7	3	8
	2	1	4	7

∴ 2147 should be subtracted from 3885 to get 1738

9. Ratna given money to shopkeeper =

Purchased books and clothes =

She get back =

	Th	H	T	O
	②	⑨	⑨	①
	₹ ~~3~~	~~0~~	~~0~~	0
–	₹ 2	9	5	4
	₹ 0	0	4	6

10. Total books in library =

Hindi books in library =

English books in library =

	Th	H	T	O
	⑧	①	①	①
	~~9~~	~~3~~	~~6~~	5
–	4	7	8	6
	4	5	7	9

11. Total students in school =

Boys students in school =

Girls students in school =

	Th	H	T	O
	②	④	①	
	~~3~~	~~5~~	6	9
–	1	6	8	7
	1	8	8	2

12. Total trees planted =

Trees dried up =

Trees left =

	TTh	Th	H	T	O
		①	①	⑧	①
	1	~~5~~	2	~~9~~	6
–		8	6	8	9
		6	6	0	7

13. Total children in competition =

Total children from Ist school =

Total children from IInd school =

	Th	H	T	O
		⑧	①	
	7	~~9~~	4	8
–		2	9	8
	7	6	5	0

14. Rohan and Rizwaan donated =

Rohan denoted =

Rizwaan denoted =

	TTh	Th	H	T	O
	⓪	①	①	①	①
	~~1~~	~~8~~	~~3~~	~~7~~	5
–		9	9	7	8
		8	3	9	7

15.

	TTh	Th	H	T	O
	④	⑨	⑨	①	
	~~5~~	~~0~~	~~0~~	~~0~~	6
–	2	8	4	1	6
	2	1	5	9	0

No, Rakesh was wrong in answer

16. Original number =

Interchanging =

Difference =

	TTh	Th	H	T	O
		4	1	1	
	6	~~5~~	~~4~~	3	9
–	6	3	4	5	9
		1	9	8	0

Exercise- 5.7

1. (a)

Th	H	T	O
3	2	5	7
– 1	1	4	5
2	1	1	2

(b)

Th	H	T	O
7	6	4	9
– 6	5	2	9
1	1	2	0

(c)

Th	H	T	O
6	6	5	7
– 1	4	2	1
5	2	3	6

(d)

Th	H	T	O
7	9	5	6
– 0	4	3	0
7	5	2	6

(e)

Th	H	T	O
4	6	9	3
– 1	2	5	0
3	4	4	3

(f)

Th	H	T	O
7	8	4	6
– 3	5	1	2
4	3	3	4

(g)

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

(h)

Th	H	T	O
	8	1	1
6	~~9~~	~~2~~	0
– 3	4	5	6
3	4	6	4

(i)

Th	H	T	O
	1		
~~7~~	3	8	4
– 2	9	5	1
4	4	3	3

(j)

Th	H	T	O
	8	1	
6	~~9~~	0	4
– 1	2	7	3
5	6	3	1

(k)

Th	H	T	O
9	8	4	9
– 2	5	1	3
7	3	3	6

(l)

Th	H	T	O
9	4	2	9
– 1	1	0	5
8	3	2	4

Exercise- 5.8

1. (a) $92 - 27 = 92 - (20 + 7) = 92 - 20 - 7 = 72 - 7 = 65$

(b) $301 - (38) = 301 - (30 + 8) = 301 - 30 - 8 = 271 - 8 = 263$

(c) $71 - 43 = 71 - (40 + 3) = 71 - 40 - 3 = 31 - 3 = 28$

(d) $214 - 53 = 214 - (50 + 3) = 214 - 50 - 3 = 164 - 3 = 161$

(e) $397-(155)=397-(150+5)=397-150-5=247-5=242$
(f) $434-252=434-(250+2)=434-250-2=184-2=182$
(g) $63-15=63-(10+5)=63-10-5=53-5=48$
(h) $85-12=85-(10+2)=85-10-2=75-2=73$
(i) $400-332=400-(330+2)=400-330-2=70-2=68$
(j) $405-238=405-(230+8)=405-230-8=175-8=167$

Exercise- 5.9

1.

		①	
	3	4	5
+	4	1	7
	7	6	2
	⑥	①	①
	~~7~~	~~6~~	2
−	2	7	6
	4	8	6

2.

	4	4	5	9
+	7	1	4	0
1	1	5	9	9
		⑥	①	①
1	1	~~5~~	~~9~~	9
−	7	8	9	4
	3	7	0	5

3.

		⑥	⑨	①
	8	~~7~~	~~0~~	3
−	5	6	1	6
	3	0	8	7
			①	①
	3	0	8	7
+	2	0	7	5
	5	1	6	2

4.

		①	①	
	5	0	9	7
+		8	1	3
	5	9	1	0
	④	①	①	①
	~~5~~	~~9~~	~~1~~	0
−	2	9	4	6
	2	9	6	4

5.

			②	①
	7	8	~~3~~	0
−	7	6	2	4
		2	0	6
			①	
		2	0	6
+		3	3	4
		5	4	0

6.

①	①		①	
1	8	5	~~6~~	3
+	6	8	2	9
2	5	3	9	2
①	①		⑧	①
2	5	3	9	2
−	9	2	2	5
1	6	1	6	7

7.

	④	①	①	①	①
	~~5~~	~~4~~	~~2~~	~~1~~	6
−	2	9	5	6	7
	2	4	6	4	9
		①	①	①	
	2	4	6	4	9
		+	3	9	4
	2	5	0	4	3

8.

			⑧	①	①
	6	6	~~9~~	~~5~~	6
−	2	1	8	5	7
	4	5	0	9	9
		①	①	①	
	4	5	0	9	9
+	2	0	9	5	6
	6	6	0	5	5
①			①	①	
	6	6	0	5	5
+	8	7	8	5	
7	4	8	4	0	

9.

		⑤	①	①
		~~6~~	~~7~~	6	5
	−	9	8	5
	5	7	8	0
		①		
	5	7	8	0
+	5	6	0	9
1	1	3	8	9
		①		
~~1~~	1	3	8	9
−	3	1	4	6
	8	2	4	3

10.

				①
7	~~3~~	~~0~~	0	5
− 1	2	6	9	5
6	0	3	1	0

①	①			
6	0	3	1	0
+ 9	7	5	1	
7	0	0	6	1

⑥	⑨	⑨		①
~~7~~	~~0~~	~~0~~	~~6~~	~~1~~
	− 8	6	7	
6	9	1	9	4

11.

	8	0	0	0	0
+	2	0	9	8	7
1	0	0	9	8	7

		①	①	①	
1	0	0	9	8	7
+	2	7	6	8	9
1	2	8	6	7	6

	①	⑦	①	⑥	①
~~1~~	2	~~8~~	6	~~7~~	6
−	8	5	7	6	9
	4	2	9	0	7

12.

	⑤	④	⑨	①
6	~~6~~	~~5~~	~~0~~	0
− 3	0	9	5	6
3	5	5	4	4

	①	①	①	
3	~~5~~	~~5~~	~~4~~	4
− 2	4	8	5	8
1	0	6	8	6

	①	①	①	
1	0	6	8	6
+ 4	1	6	9	5
5	2	3	8	1

13.

	①	①	①	
	5	0	5	6
+ 3	5	1	7	5
4	0	2	3	1

③	⑨	①	①	①
~~4~~	~~0~~	~~2~~	~~3~~	1
− 3	7	7	9	8
0	2	4	3	3

	①	①	
2	4	3	3
	+ 8	9	
2	5	2	2

14.

⑦	①	①		
~~8~~	~~4~~	5	8	7
−	7	7	5	6
7	6	8	3	1

	⑤	①	①	①
7	~~6~~	~~8~~	~~3~~	1
− 2	2	9	7	5
5	3	8	5	6

	②	①	①	①
5	~~3~~	~~8~~	~~5~~	6
− 3	0	9	5	7
2	2	8	9	9

15.

⑤	①	①	①	
~~6~~	0	~~2~~	0	6
−	9	1	6	5
5	1	0	4	1

④	①	⑨	①	①
~~5~~	~~1~~	~~0~~	~~4~~	1
−	2	7	8	5
4	8	2	5	6

		①	①	
4	8	2	5	6
+		4	7	9
4	8	7	3	5

16.

	①	①	①	
	3	7	4	6
+ 9	9	9	9	
1	3	7	4	5

	①		③	①
~~1~~	3	7	~~4~~	5
− 5	6	0	7	
8	1	3	8	

Exercise- 5.10

1. Red beads =
Blue beads =
Total beads =

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

2. Total pages in a book =
Joy readed the pages =
Pages left to read =

	Th	H	T	O
		①	⑨	①
	2	~~2~~	~~0~~	0
–	1	5	7	5
		6	2	5

3. Orange drink bottles =
Lemon drink bottles =
Total bottles =

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

4. Anita mother have in account =
Anita mother taken out =
Money left in account =

	Th	H	T	O
		⑥	①	
	₹ 8	~~7~~	3	0
–	₹ 5	5	5	0
	₹ 3	1	8	0

5. Total seats in stadium =
People came =
Seats empty =

	Th	H	T	O
	⑥	⑨	⑨	①
	~~7~~	~~0~~	~~0~~	0
–	5	8	2	5
	1	1	7	5

6. Total students =
Admitted in school =

	H	T	O
	③	①	
	~~4~~	0	0
+	2	5	0
	6	5	0
	6	5	0

Left school =
Students left at the end of the year =

	H	T	O
–	1	4	0
	5	1	0

7.

			H	T	O
			①		
Bananas sold	=		~~1~~	8	0
Mangoes sold	=	+	2	3	0
(Bananas + mangoes) sold	=		4	1	0
Total fruits sold	=		4	8	0
(Bananas + mangoes) fruits sold	=	–	4	1	0
Other fruits sold	=			7	0

8.

			Th	H	T	O
				③	①	
Students came on time	=			6	1	2
Students came late	=	+		3	1	4
Total student present	=			9	2	6
			⓪	①		
Total seats on auditorium	=		~~1~~	4	2	8
Seats occupied	=	–		9	2	6
Seats left vacant	=		0	5	0	2

9.

			Th	H	T	O
Greatest 3 digit number	=			9	9	9
Smallest 3 digit number	=	+		1	0	0
Sum	=		1	0	9	9
Greatest 4 digit number	=		9	9	9	9
Sum	=	–	1	0	9	9
Difference	=		8	9	0	0

10.

			Th	H	T	O
Woman saved on Ist month	=		₹	3	3	5	1
Woman saved on IInd month	=	+	₹	4	1	4	5
Total saved	=			7	4	9	6

Total saved	=		₹	7	4	9	6
Given to daughter	=	–	₹	1	2	3	4
Money left with her	=		₹	6	2	6	2

11.

			TTh	Th	H	T	O
				①	①	①	
Eggs sold on Ist day	=			9	8	7	5
Eggs sold on IInd day	=	+		5	6	2	9
Total eggs sold	=		1	5	5	0	4
				⑦	⑨	⑨	①
Egg seller have eggs	=		2	~~8~~	~~0~~	~~0~~	0
Eggs sold in 2 days	=	–	1	5	5	0	4
Eggs left	=		1	2	4	9	6

12. Oil tanker have oil =
Oil leaked out =
Oil left =

	TTh	Th	H	T	O	
	⑦	①	⑨	⑨	①	
	~~8~~	~~2~~	~~0~~	~~0~~	0	l
−		4	9	1	2	l
	7	7	0	8	8	l

Left oil =
Oil sold =
Oil left =

	⑥	⑥	①			
	7	~~7~~	~~0~~	8	8	l
−	5	9	2	4	5	l
	1	7	8	4	3	l

Oil left =
Oil pumped in =
Oil in tanker now =

	①	①	①			
	1	7	8	4	3	l
+	2	5	1	6	0	l
	4	3	0	0	3	l

13. Difference =

	Th	H	T	O
	8	6	5	4
−	6	5	2	1
	2	1	3	3

Sum =

		①	①		
		2	5	6	2
+		7	9	7	5
	1	0	5	3	7

∴ Sum

				①	
	1	0	5	3	7
+		2	1	3	3
	1	2	6	7	0

14. Let x should be added

$$(3469 + 7925) + x = (25695 - 10935)$$
$$11394 + x = 14760$$
$$x = 14760 - 11394$$
$$x = 3366$$

15.

	TTh	Th	H	T	O
Samosas in canteen =	3	7	7	5	0
Samosas sold = −	2	9	6	2	8
Samosas left =		8	1	2	2
Samosas left =		8	1	2	2
Samosas stocked again = +	1	3	2	6	0
Samosas left in canteen =	2	1	3	8	2

MCQs

1. (b)

$$\begin{array}{r} 5000 \\ -\ 4331 \\ \hline 669 \end{array}$$

2. (b)

$$\begin{array}{r} 1000 \\ -\ 760 \\ \hline 240 \end{array}$$

3. (b)

$$\begin{array}{r} 9630 \\ -\ 5000 \\ \hline 4630 \end{array}$$

4. (a)

5. (a)

Mental Maths

1. $x - 1250 = 2500$

$x = 2500 + 1250$

$x = \boxed{3750}$

2. $x - 1999 = 700$

$x = 700 + 1999$

$x = \boxed{2699}$

3. $x - (300 + 900) = 300$

$x - 1200 = 300$

$x = 300 + 1200$

$x = \boxed{1500}$

Test Exercise

1. (a)

$$\begin{array}{r} 3\ \cancel{4}^{3}\ 4^{1} \\ -\ 2\ 3\ 7 \\ \hline 1\ 0\ 7 \end{array}$$

(b)

$$\begin{array}{r} \cancel{9}^{8}\ 1^{1}\ 3 \\ -\ 4\ 3\ 1 \\ \hline 4\ 8\ 2 \end{array}$$

(c)

$$\begin{array}{r} \cancel{6}^{5}\ \cancel{1}^{1}\ 2^{1} \\ -\ 4\ 7\ 8 \\ \hline 1\ 3\ 4 \end{array}$$

(d)

$$\begin{array}{r} \cancel{6}^{5}\ \cancel{1}^{1}\ 2^{1} \\ -\ 2\ 3\ 4 \\ \hline 3\ 7\ 8 \end{array}$$

(e)

$$\begin{array}{r} \cancel{8}^{7}\ \cancel{0}^{9}\ 2^{1} \\ -\ 3\ 8\ 3 \\ \hline 4\ 1\ 9 \end{array}$$

(f)

$$\begin{array}{r} \cancel{7}^{6}\ \cancel{0}^{9}\ 0^{1} \\ -\ 2\ 4\ 5 \\ \hline 4\ 5\ 5 \end{array}$$

(g)

$$\begin{array}{r} \cancel{7}^{6}\ 2^{1}\ 9 \\ -\ 2\ 3\ 4 \\ \hline 4\ 9\ 5 \end{array}$$

(h)

$$\begin{array}{r} 7\ \cancel{7}^{6}\ 0^{1} \\ -\ 5\ 3\ 7 \\ \hline 2\ 3\ 3 \end{array}$$

(i)

$$\begin{array}{r} 7000 \\ -\ 4000 \\ \hline 3000 \end{array}$$

(j)

$$\begin{array}{r} 3268 \\ -\ 1054 \\ \hline 2214 \end{array}$$

(k)

$$\begin{array}{r} 9456 \\ -\ 3210 \\ \hline 6246 \end{array}$$

(l)

$$\begin{array}{r} 5837 \\ -\ 4315 \\ \hline 1522 \end{array}$$

2. (a)

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

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

(b)

$$\begin{array}{r} 4\,1\,5\,6 \\ +\ 3\,5\,4\,2 \\ \hline 7\,6\,9\,8 \end{array}$$

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

3.

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

4.

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

5. (a) Bookseller have books =
Bookseller sold books =
Books left =

$$\begin{array}{r} 6\ 1 \\ \cancel{5}\ \cancel{7}\ 3 \\ -\ 3\,1\,7 \\ \hline 2\,5\,6 \end{array}$$

(b) Pages to be typed =
Pages typed =
Pages left to be typed =

$$\begin{array}{r} 1\ 1 \\ 5\ \cancel{2}\ 0 \\ -\ 4\,7\,4 \\ \hline 4\,6 \end{array}$$

(c) Total students =
Students admitted =
Now total students =

$$\begin{array}{r} 2\,0\,0\,0 \\ +\ \ \ 1\,5\,0 \\ \hline 2\,1\,5\,0 \end{array}$$

Total student =
Students left =
Students at end of year =

$$\begin{array}{r} 0\ 1\ 1 \\ 2\ \cancel{1}\ \cancel{5}\ 0 \\ -\ \ \ \ 8\,5 \\ \hline 2\,0\,6\,5 \end{array}$$

(d) Sunil's income =
Sunil's wife income =
Total income =

$$\begin{array}{r} ₹\ 8\,0\,0\,0 \\ +\ ₹\ 6\,0\,0\,0 \\ \hline ₹\ 1\,4\,0\,0\,0 \end{array}$$

Total income =
Money spend =
They save =

$$\begin{array}{r} ₹\ 1\,4\,0\,0\,0 \\ -\ ₹\ 1\,0\,0\,0\,0 \\ \hline ₹\ 4\,0\,0\,0 \end{array}$$

(e) Neem trees =
Peepal trees =
Total trees =

$$\begin{array}{r} 1\,5\,0\,0 \\ +\ 1\,2\,0\,0 \\ \hline 2\,7\,0\,0 \end{array}$$

Total trees =
Trees cut =
Trees left =

$$\begin{array}{r} 6\ 1 \\ 2\ \cancel{7}\ \cancel{0}\ 0 \\ -\ \ \ 4\,5\,0 \\ \hline 2\,2\,5\,0 \end{array}$$

6 Multiplication

Exercise- 6.1

1. (a) $4+4+4+4=$ 16 $\quad 4\times4=$ 16

(b) $2+2+2+2+2+2=$ 16 $\quad 6\times2=$ 16

2. (b) $\mathbf{3}\times\mathbf{3}=3+3+3=\mathbf{9}$ (c) $5\times9=\mathbf{9}+\mathbf{9}+\mathbf{9}+\mathbf{9}+\mathbf{9}=\mathbf{45}$

(d) $6\times2=\mathbf{2}+\mathbf{2}+\mathbf{2}+\mathbf{2}+\mathbf{2}+\mathbf{2}=\mathbf{12}$ (e) $\mathbf{7}\times\mathbf{7}=7+7+7+7+7+7+7=\mathbf{49}$

3. (a)
```
  ②
   2 7
×    3
  8 1
```

(b)
```
  ②
   1 5
×    4
   6 0
```

(c)
```
  ①
   2 4
×    4
   9 6
```

(d)
```
  ②
   1 4
×    5
   7 0
```

(e)
```
   5 3
×    3
 1 5 9
```

(f)
```
   8 4
×    2
 1 6 8
```

(g)
```
   4 3
×    3
 1 2 9
```

(h)
```
   7 1
×    5
 3 5 5
```

(i)
```
  ①
   8 3
×    4
 3 3 2
```

(j)
```
  ②
   9 5
×    5
 4 7 5
```

(k)
```
  ②
   6 4
×    6
 3 8 4
```

(l)
```
  ②
   5 7
×    3
 1 7 1
```

(m)
```
   3 4
×    2
   6 8
```

(n)
```
   4 1
×    4
 1 6 4
```

(o)
```
   5 3
×    3
 1 5 9
```

(p)
```
   6 4
×    2
 1 2 8
```

(q)
```
   2 3
×    3
   6 9
```

(r)
```
   1 2
×    4
   4 8
```

(s)
```
   4 1
×    9
 3 6 9
```

(t)
```
   3 0
×    5
 1 5 0
```

(u)
```
   6 2
×    4
 2 4 8
```

(v)
```
   7 1
×    9
 6 3 9
```

(w)
```
  ②
   8 5
×    5
 4 2 5
```

(x)
```
  ②
   7 4
×    7
 5 1 8
```

4. (a)

	5	0
×		5
2	5	0

(b)

	①	
	3	7
×		2
	7	4

(c)

	①	
	3	9
×		2
	7	8

(d)

	3	2
×		2
	6	4

(e)

	①	
	6	7
×		2
1	3	4

(f)

	4	4
×		2
	8	8

Exercise- 6.2

1. (a) $256 \times 1 = \mathbf{256}$
(b) $25 \times 18 \times \mathbf{13} = 13 \times 25 \times 18$
(c) $664 \times \mathbf{1} = 664$
(d) $987 \times 0 = \mathbf{0}$
(e) $900 \times \mathbf{0} = 0$
(f) $82 \times \mathbf{6} \times 42 = 6 \times 42 \times \mathbf{82}$
(g) $7 \times 4 = \mathbf{4} \times 7$
(h) $100 \times 5 = \mathbf{5} \times 100$

Exercise- 6.3

1. (a)

H	T	O
3	2	0
	×	3
9	6	0

(b)

H	T	O
3	1	0
	×	3
9	3	0

(c)

H	T	O
3	1	4
	×	2
6	2	8

(d)

H	T	O
2	4	2
	×	2
4	8	4

(e)

H	T	O
	②	
1	1	9
	×	3
3	5	7

(f)

H	T	O
3	0	5
	×	3
9	1	5

(g)

H	T	O
①	①	
3	8	6
	×	2
7	7	2

(h)

H	T	O
①		
2	5	2
	×	2
5	0	4

(i)

Th	H	T	O
	①	①	
	5	9	2
		×	5
2	9	6	0

(j)

Th	H	T	O
	④		
	6	8	1
		×	5
3	4	0	5

(k)

Th	H	T	O
		①	
	7	0	3
		×	4
2	8	1	2

(l)

Th	H	T	O
	①	①	
	3	4	5
		×	3
1	0	3	5

(m)

Th	H	T	O
	6	2	1
		×	4
2	4	8	4

(n)

Th	H	T	O
	8	0	0
		×	9
7	2	0	0

(o)

Th	H	T	O
	2	0	0
		×	6
1	2	0	0

(p)

Th	H	T	O
	5	1	0
		×	2
1	0	2	0

(q)

H	T	O
	①	
3	3	5
	×	2
6	7	0

(r)

Th	H	T	O
		③	
	5	1	6
		×	6
3	0	9	6

(s)

Th	H	T	O
	7	0	5
		×	9
6	3	4	5

(t)

Th	H	T	O
	3	0	8
		×	7
2	1	5	6

(u)

Th	H	T	O
	①	③	
	7	1	5
		×	7
5	0	0	5

(v)

Th	H	T	O
	②	①	
	6	4	2
		×	5
3	2	1	0

(w)

Th	H	T	O
	4	0	3
		×	5
2	0	1	5

(x)

Th	H	T	O
	⑤	①	
	3	7	5
		×	7
2	6	2	5

(y)

Th	H	T	O
	③	①	
	7	4	2
		×	8
5	9	3	6

(z)

Th	H	T	O
	③	①	
	4	6	3
		×	6
2	7	7	8

2. (a)

H	T	O
1	2	3
	×	3
3	6	9

(b)

H	T	O
2	0	4
	×	2
4	0	8

(c)

H	T	O
1	1	2
	×	3
3	3	6

(d)

H	T	O
1	1	1
	×	5
5	5	5

(e)

Th	H	T	O
		①	
	6	2	5
		×	3
1	8	7	5

(f)

Th	H	T	O
		②	
	3	1	5
		×	5
1	5	7	5

(g)

Th	H	T	O
	①	①	
	1	6	8
		×	2
	3	3	6

(h)

Th	H	T	O
	①	②	
	4	2	7
		×	4
1	7	0	8

(i)

Th	H	T	O
		①	
	6	1	2
		×	7
4	2	8	4

(j)

Th	H	T	O
	③	③	
	4	7	6
		×	5
2	3	8	0

(k)

Th	H	T	O
	①	⑤	
	3	2	9
		×	6
1	9	7	4

(l)

Th	H	T	O
	②		
	2	5	0
		×	4
1	0	0	0

(m)

Th	H	T	O
	④	②	
	7	6	3
		×	7
5	3	4	1

(n)

Th	H	T	O
	②	②	
	2	5	6
		×	4
1	0	2	4

(o)

Th	H	T	O
	⑦	③	
	3	9	4
		×	8
3	1	5	2

(p)

Th	H	T	O
	②	③	
	3	5	6
		×	5
1	7	8	0

(q)

Th	H	T	O
	⑦	②	
	2	8	3
		×	9
2	5	4	7

(r)

Th	H	T	O
	①		
	7	8	4
		×	2
1	5	6	8

(s)

Th	H	T	O
	③	③	
	9	9	9
		×	4
3	9	9	6

(t)

Th	H	T	O
	④	④	
	7	7	7
		×	6
4	6	6	2

(u)

Th	H	T	O
	③	②	
	1	9	6
		×	4
	7	8	4

(v)

Th	H	T	O
	①	①	
	6	6	6
		×	2
1	3	3	2

(w)

Th	H	T	O
	④	⑧	
	7	4	9
		×	9
6	7	4	1

(x)

Th	H	T	O
	①	①	
	3	3	3
		×	4
1	3	3	2

Exercise- 6.4

1. (a)

Th	H	T	O
2	3	1	3
		×	3
6	9	3	9

(b)

Th	H	T	O
1	0	3	2
		×	2
2	0	6	4

(c)

Th	H	T	O
2	4	1	3
		×	1
2	4	1	3

(d)

Th	H	T	O
1	2	4	3
		×	2
2	4	8	6

(e)

Th	H	T	O
1	1	2	2
		×	4
4	4	8	8

(f)

Th	H	T	O
4	3	2	0
		×	2
8	6	4	0

(g)

Th	H	T	O
3	2	1	3
		×	3
9	6	3	9

(h)

Th	H	T	O
4	3	3	4
		×	2
8	6	6	8

(i)

TTh	Th	H	T	O
	①	①	②	
	5	3	2	4
			×	5
2	6	6	2	0

(j)

TTh	Th	H	T	O
		②	①	
	3	1	5	3
			×	4
1	2	6	1	2

(k)

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

(l)

TTh	Th	H	T	O
	⑧	②	①	
	7	9	3	2
			×	9
7	1	3	8	8

(m)

Th	H	T	O
①		②	
2	4	1	5
		×	4
9	6	6	0

(n)

Th	H	T	O
③			
1	8	2	0
		×	4
7	2	8	0

(o)

TTh	Th	H	T	O
		②	③	
	6	0	3	4
			×	8
4	8	2	7	2

(p)

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

(q)

TTh	Th	H	T	O
	③	①		
	4	6	2	1
			×	6
2	7	7	2	6

(r)

TTh	Th	H	T	O
	①		②	
	6	3	0	5
			×	4
2	5	2	2	0

(s)

Th	H	T	O
①			
1	4	3	2
		×	3
4	2	9	6

(t)

Th	H	T	O
3	2	0	4
		×	2
6	4	0	8

(u)

Th	H	T	O
2	0	3	3
		×	2
4	0	6	6

(v)

TTh	Th	H	T	O
	7	0	3	4
			×	2
1	4	0	6	8

(w)

TTh	Th	H	T	O
	6	0	1	0
			×	5
3	0	0	5	0

(x)

Th	H	T	O
①	③	②	
2	3	7	5
		×	4
9	5	0	0

2. (a)

TTh	Th	H	T	O
	②	①	②	
	7	7	5	9
			×	3
2	3	2	7	7

(b)

Th	H	T	O
①	①	①	
1	7	9	8
		×	2
3	5	9	6

(c)

Th	H	T	O
②	②	②	
1	9	7	8
		×	3
5	9	3	4

(d)

Th	H	T	O
②	②	④	
1	3	4	7
		×	6
8	0	8	2

(e)

Th	H	T	O
②	②	②	
1	5	5	5
		×	4
6	2	2	0

(f)

Th	H	T	O
	③	②	
1	0	7	5
		×	5
5	3	7	5

(g)

TTh	Th	H	T	O
	①	③	①	
	1	3	8	4
			×	4
	5	5	3	6

(h)

Th	H	T	O
①	②	⑤	
1	2	3	9
		×	6
7	4	3	4

(i)

Th	H	T	O
①			
4	6	4	2
		×	2
9	2	8	4

(j)

Th	H	T	O
①	①		
2	5	4	3
		×	3
7	6	2	9

(k)

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

(l)

TTh	Th	H	T	O
	③	①	③	
	6	9	3	9
			×	4
2	7	7	5	6

3. (a)

Th	H	T	O
2	2	2	2
		×	3
6	6	6	6

(b)

Th	H	T	O
1	2	1	4
		×	2
2	4	2	8

(c)

Th	H	T	O
	⑤	④	
1	0	8	7
		×	6
6	5	2	2

(d)

Th	H	T	O
②	②		
2	7	8	2
		×	3
8	3	4	6

(e)

Th	H	T	O
③	③	①	
1	6	7	2
		×	5
8	3	6	0

(f)

Th	H	T	O
		①	
3	0	1	8
		×	2
6	0	3	6

(g)

Th	H	T	O
①	①	②	
2	4	3	5
		×	4
9	7	4	0

(h)

Th	H	T	O
2	2	3	1
		×	3
6	6	9	3

(i)

Th	H	T	O
	①	①	
4	1	7	5
		×	2
8	3	5	0

(j)

Th	H	T	O
①	①	④	
1	2	1	7
		×	7
8	5	1	9

(k)

Th	H	T	O
	②	④	
1	0	4	2
		×	5
5	2	1	0

(l)

Th	H	T	O
1	0	4	1
		×	4
4	1	6	4

Exercise- 6.5

1.

$11 \times 1 = 11$	$12 \times 1 = 12$	$13 \times 1 = 13$
$11 \times 2 = 22$	$12 \times 2 = 24$	$13 \times 2 = 26$
$11 \times 3 = 33$	$12 \times 3 = 36$	$13 \times 3 = 39$
$11 \times 4 = 44$	$12 \times 5 = 60$	$13 \times 5 = 65$
$11 \times 6 = 66$	$12 \times 6 = 72$	$13 \times 6 = 78$
$11 \times 7 = 77$	$12 \times 7 = 84$	$13 \times 7 = 91$
$11 \times 8 = 88$	$12 \times 8 = 96$	$13 \times 8 = 104$
$11 \times 9 = 99$	$12 \times 9 = 108$	$13 \times 9 = 117$
$11 \times 10 = 110$	$12 \times 10 = 120$	$13 \times 10 = 130$

$14 \times 1 = 14$	$15 \times 1 = 15$	$16 \times 1 = 16$
$14 \times 2 = 28$	$15 \times 2 = 30$	$16 \times 2 = 32$
$14 \times 3 = 42$	$15 \times 3 = 45$	$16 \times 3 = 48$
$14 \times 4 = 56$	$15 \times 4 = 60$	$16 \times 4 = 64$
$14 \times 5 = 70$	$15 \times 5 = 75$	$16 \times 5 = 80$
$14 \times 6 = 84$	$15 \times 6 = 90$	$16 \times 6 = 96$
$14 \times 7 = 98$	$15 \times 7 = 105$	$16 \times 7 = 112$
$14 \times 8 = 112$	$15 \times 8 = 120$	$16 \times 8 = 128$
$14 \times 9 = 126$	$15 \times 9 = 135$	$16 \times 9 = 144$
$14 \times 10 = 140$	$15 \times 10 = 150$	$16 \times 10 = 160$
$17 \times 1 = 17$	$18 \times 1 = 18$	$19 \times 1 = 19$
$17 \times 2 = 34$	$18 \times 2 = 36$	$19 \times 2 = 38$
$17 \times 3 = 51$	$18 \times 3 = 54$	$19 \times 3 = 57$
$17 \times 4 = 68$	$18 \times 4 = 72$	$19 \times 4 = 76$
$17 \times 5 = 85$	$18 \times 5 = 90$	$19 \times 5 = 95$
$17 \times 6 = 102$	$18 \times 6 = 108$	$19 \times 6 = 114$
$17 \times 7 = 119$	$18 \times 7 = 126$	$19 \times 7 = 133$
$17 \times 8 = 136$	$18 \times 8 = 144$	$19 \times 8 = 152$
$17 \times 9 = 153$	$18 \times 9 = 162$	$19 \times 9 = 171$
$17 \times 10 = 170$	$18 \times 10 = 180$	$19 \times 10 = 190$
$20 \times 1 = 20$		
$20 \times 2 = 40$		
$20 \times 3 = 60$		
$20 \times 4 = 80$		
$20 \times 5 = 100$		
$20 \times 6 = 120$		
$20 \times 7 = 140$		
$20 \times 8 = 160$		
$20 \times 9 = 180$		
$20 \times 10 = 200$		

2. (a) $18 \times 7 =$ **126** (b) $16 \times 5 =$ **80** (c) $19 \times 8 =$ **152**
(d) $7 \times 15 =$ **105** (e) $13 \times 4 =$ **52** (f) $15 \times 9 =$ **135**
(g) $12 \times 8 =$ **96** (h) $5 \times 12 =$ **60** (i) $3 \times 19 =$ **57**
(j) $6 \times 18 =$ **108** (k) $17 \times 3 =$ **51** (l) $9 \times 16 =$ **144**
(m) $4 \times 17 =$ **68** (n) $14 \times 6 =$ **84** (o) $8 \times 13 =$ **104**

Exercise- 6.6

1. (a) $23 \times 10 =$ **230** (b) $10 \times 10 =$ **100** (c) $34 \times 100 =$ **3400**
(d) $77 \times 100 =$ **7700** (e) $69 \times 10000 =$ **690000**
(f) $271 \times 100 =$ **27100** (g) $44 \times 1000 =$ **44000** (h) $508 \times 10 =$ **5080**
(i) $36 \times 1000 =$ **36000** (j) $309 \times 100 =$ **30900** (k) $207 \times 100 =$ **20700**

(l) $43 \times 1000 = \mathbf{43000}$ (m) $27 \times 1000 = \mathbf{27000}$ (n) $3479 \times 10 = \mathbf{34790}$
(o) $834 \times 100 = \mathbf{83400}$

2. (a) $70 \times 10 = \mathbf{700}$ (b) $50 \times 100 = \mathbf{5000}$ (c) $300 \times 10 = \mathbf{3000}$
(d) $307 \times 10 = \mathbf{3070}$ (e) $1070 \times 100 = \mathbf{107000}$
(f) $407 \times 1000 = \mathbf{407000}$ (g) $205 \times 100 = \mathbf{20500}$ (h) $560 \times 1000 = \mathbf{560000}$
(i) $209 \times 100 = \mathbf{20900}$ (j) $690 \times 10 = \mathbf{6900}$ (k) $309 \times 100 = \mathbf{30900}$
(l) $600 \times 100 = \mathbf{60000}$

3. (a) $25 \times 60 = 25 \times 6 \times 10 = 150 \times 10 = 1500$
(b) $25 \times 20 = 25 \times 2 \times 10 = 50 \times 10 = 500$
(c) $26 \times 300 = 26 \times 3 \times 100 = 78 \times 100 = 7800$
(d) $30 \times 600 = 3 \times 10 \times 6 \times 100 = 18 \times 1000 = 18000$
(e) $245 \times 50 = 245 \times 5 \times 10 = 1225 \times 10 = 12250$
(f) $29 \times 40 = 29 \times 4 \times 10 = 116 \times 10 = 1160$
(g) $405 \times 90 = 405 \times 9 \times 10 = 3645 \times 10 = 36450$
(h) $33 \times 30 = 33 \times 3 \times 10 = 99 \times 10 = 990$
(i) $30 \times 70 = 3 \times 10 \times 7 \times 10 = 3 \times 7 \times 10 \times 10 = 21 \times 100 = 2100$
(j) $210 \times 80 = 21 \times 10 \times 8 \times 10 = 21 \times 8 \times 10 \times 10 = 168 \times 100 = 16800$
(k) $10 \times 900 = 10 \times 9 \times 100 = 1000 \times 9 = 9000$
(l) $210 \times 800 = 21 \times 10 \times 8 \times 100 = 21 \times 8 \times 10 \times 100 = 168 \times 1000 = 168000$

4. (a) $210 \times 80 = 168 \times 100 = 16800$ (b) $25 \times 500 = 12500$
(c) $22 \times 200 = 4400$ (d) $70 \times 900 = 63000$
(e) $310 \times 800 = 248000$ (f) $80 \times 800 = 64000$
(g) $250 \times 400 = 100000$ (h) $405 \times 700 = 283500$
(i) $23 \times 2000 = 46000$ (j) $37 \times 5000 = 185000$
(k) $35 \times 9000 = 315000$ (l) $45 \times 4000 = 180000$

5. (a) $5 \times 6 \times 50 = 1500$ (b) $5 \times 20 \times 60 = 6000$
(c) $50 \times 40 \times 2 = 40000$ (d) $6 \times 80 \times 20 = 9600$
(e) $60 \times 70 \times 20 = 84000$ (f) $300 \times 60 \times 30 = 540000$
(g) $250 \times 20 \times 30 = 150000$ (h) $40 \times 50 \times 20 = 40000$
(i) $40 \times 40 \times 50 = 80000$ (j) $20 \times 40 \times 200 = 160000$
(k) $80 \times 20 \times 10 = 16000$ (l) $30 \times 60 \times 40 = 16000$
(m) $20 \times 70 \times 40 = 56000$ (n) $40 \times 10 \times 50 = 20000$

Exercise- 6.7

1. (a)

	H	T	O
		①	
		2	6
×		1	2
	①	5	2
	2	6	×
	3	1	2

(b)

	H	T	O
		1	6
×		1	5
	①	6	0
	1	6	×
	2	2	0

(c)

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

(d)

	H	T	O
		⑦	
		4	9
×		3	8
	3	9	2
1	4	7	×
1	8	6	2

(e)

H	T	O
	1	4
×	1	5
①	7	0
1	4	×
2	1	0

(f)

H	T	O
	3	2
×	2	1
	3	2
6	4	×
6	7	2

(g)

H	T	O
	3	5
×	1	5
1	7	5
3	5	×
5	2	5

(h)

H	T	O
	4	2
×	1	5
2	1	0
4	2	×
6	3	0

(i)

H	T	O
	1	9
×	1	5
	9	5
1	9	×
2	8	5

(j)

H	T	O
	3	6
×	2	7
2	5	2
7	2	×
9	7	2

(k)

H	T	O
	2	4
×	3	6
1	4	4
7	2	×
8	6	4

(l)

H	T	O
	2	8
×	3	4
1	1	2
8	4	×
9	5	2

2. (a)

H	T	O
	7	8
×	2	4
3	1	2
1 5	6	×
1 8	7	2

(b)

H	T	O
	4	8
×	1	7
3	3	6
4	8	×
8	1	6

(c)

H	T	O
	6	9
×	2	6
4	1	4
1 3	8	×
1 7	9	4

(d)

H	T	O
	8	5
×	1	9
7	6	5
8	5	×
1 6	1	5

(e)

H	T	O
	9	2
×	3	7
6	4	4
2 7	6	×
3 4	0	4

(f)

H	T	O
	3	5
×	7	4
1	4	0
2 4	5	×
2 5	9	0

(g)

H	T	O
	6	7
×	5	6
4	0	2
3 3	5	×
3 7	5	2

(h)

H	T	O
	7	5
×	5	8
6	0	0
3 7	5	×
4 3	5	0

(i)

H	T	O
	5	9
×	3	7
4	1	3
1 7	7	×
2 1	8	3

Exercise- 6.8

1. (a)

Th	H	T	O
	2	4	5
	×	1	6
1	4	7	0
2	4	5	×
3	9	2	0

(b)

Th	H	T	O
	4	6	5
	×	2	1
	4	6	5
9	3	0	×
9	7	6	5

(c)

Th	H	T	O
	3	1	9
	×	1	5
1	5	9	5
3	1	9	×
4	7	8	5

(d)

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

(e)

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

(f)

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

(g)

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

(h)

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

(i)

Th	H	T	O
	3	4	2
	×	1	9
3	0	3	8
3	4	2	×
6	4	5	8

(j)

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

(k)

Th	H	T	O
	5	1	9
	×	1	8
4	1	5	2
5	1	9	×
9	3	4	2

(l)

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

2. (a)

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

(b)

Th	H	T	O
	3	7	2
	×	2	6
2	2	3	2
7	4	4	×
9	6	7	2

(c)

Th	H	T	O
	7	6	3
	×	1	2
1	5	2	6
7	6	3	×
9	1	5	6

(d)

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

(e)

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

(f)

Th	H	T	O
	8	1	2
	×	1	1
	8	1	2
8	1	2	×
8	9	3	2

(g)

Th	H	T	O
	1	2	1
	×	3	1
	1	2	1
3	6	3	×
3	7	5	1

(h)

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

(i)

Th	H	T	O
	5	0	8
	×	1	9
4	5	7	2
5	0	8	×
9	6	5	2

Exercise- 6.9

1. (a)

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

(b)

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

(c)

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

(d)

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

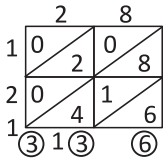
(e)

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

(f)

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

2. (a)

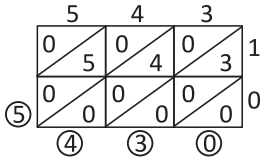


$28 \times 12 = 336$

Checking

	2	8
×	1	2
	5	6
2	8	×
3	3	6

(b)

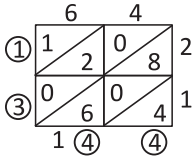


$543 \times 10 = 5430$

Checking

$$\begin{array}{r} 5\ 4\ 3 \\ \times\ 1\ 0 \\ \hline 0\ 0\ 0 \\ 5\ 4\ 3\ \times \\ \hline 5\ 4\ 3\ 0 \\ \hline \end{array}$$

(c)

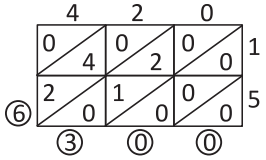


$64 \times 21 = 1344$

Checking

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

(d)

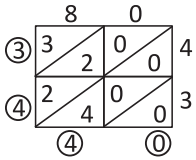


$420 \times 15 = 6300$

Checking

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

(e)

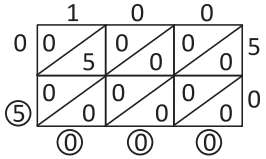


$80 \times 43 = 3440$

Checking

$$\begin{array}{r} 8\ 0 \\ \times\ 4\ 3 \\ \hline 2\ 4\ 0 \\ 3\ 2\ 0\ \times \\ \hline 3\ 4\ 4\ 0 \\ \hline \end{array}$$

(f)

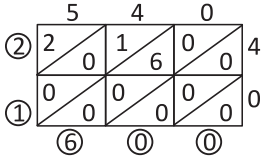


$100 \times 50 = 5000$

Checking

$$\begin{array}{r} 1\ 0\ 0 \\ \times\ 5\ 0 \\ \hline 0\ 0\ 0 \\ 5\ 0\ 0\ \times \\ \hline 5\ 0\ 0\ 0 \\ \hline \end{array}$$

(g)

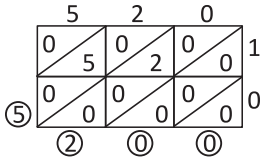


$540 \times 40 = 21600$

Checking

$$\begin{array}{r} 5\ 4\ 0 \\ \times\ 4\ 0 \\ \hline 0\ 0\ 0 \\ 2\ 1\ 6\ 0\ \times \\ \hline 2\ 1\ 6\ 0\ 0 \\ \hline \end{array}$$

(h)



$520 \times 10 = 5200$

Checking

$$\begin{array}{r} 5\ 2\ 0 \\ \times\ 1\ 0 \\ \hline 0\ 0\ 0 \\ 5\ 2\ 0\ \times \\ \hline 5\ 2\ 0\ 0 \end{array}$$

3. (a)

$$\begin{array}{r} \textbf{Th H T O} \\ 4\ 4\ 3 \\ \times\ 6 \\ \hline 2\ 6\ 5\ 8 \end{array}$$

(b)

$$\begin{array}{r} \textbf{Th H T O} \\ 4\ 5\ 8 \\ \times\ 9 \\ \hline 4\ 1\ 2\ 2 \end{array}$$

(c)

$$\begin{array}{r} \textbf{Th H T O} \\ 3\ 8\ 7 \\ \times\ 4 \\ \hline 1\ 5\ 4\ 8 \end{array}$$

(d)

$$\begin{array}{r} \textbf{TTh Th H T O} \\ 3\ 6\ 8 \\ \times\ 4\ 3 \\ \hline 1\ 1\ 0\ 4 \\ 1\ 4\ 7\ 2\ \times \\ \hline 1\ 5\ 8\ 2\ 4 \end{array}$$

(e)

$$\begin{array}{r} \textbf{TTh Th H T O} \\ 6\ 5\ 4 \\ \times\ 6\ 2 \\ \hline 1\ 3\ 0\ 8 \\ 3\ 9\ 2\ 4\ \times \\ \hline 4\ 0\ 5\ 4\ 8 \end{array}$$

(f)

$$\begin{array}{r} \textbf{TTh Th H T O} \\ 9\ 0\ 5 \\ \times\ 2\ 5 \\ \hline 4\ 5\ 2\ 5 \\ 1\ 8\ 1\ 0\ \times \\ \hline 2\ 2\ 6\ 2\ 5 \end{array}$$

Exercise- 6.10

1. Cost of 1 chocolate = ₹ 98
Cost of 3 chocolates = ₹ 48×3 = ₹ 144

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

2. Cost of 1 story book = ₹ 295
Cost of 4 story books = ₹ 295×4 = ₹ 1180

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

3. Earning of 1 month = ₹ 2850
Earning of 3 months = ₹ 2850×3 = ₹ 8550

$$\begin{array}{r} ②\ ① \\ 2\ 8\ 5\ 0 \\ \times\ 3 \\ \hline 8\ 5\ 5\ 0 \end{array}$$

4. Weight of 1 bag of rice = 32 kg
Weight of 86 bags of rice = (32 × 86) kg
= 2752 kg

$$\begin{array}{r} 32 \\ \times\ 86 \\ \hline 192 \\ 256\times \\ \hline 2752 \end{array}$$

5. Weight of 1 watermelon = 1260 g
Weight of 7 watermelons = 1260 × 7 g
= 8820 g or 8 kg 820 g

$$\begin{array}{r} 1\overset{4}{2}60 \\ \times\ 7 \\ \hline 8820 \end{array}$$

6. Pages in 1 newspaper = 28
Pages in 30 newspapers = 28 × 30 = 840

$$\begin{array}{r} 28 \\ \times\ 30 \\ \hline 00 \\ 84\times \\ \hline 840 \end{array}$$

7. Birds lives in 1 tree = 7
Birds lives in 212 trees = 212 × 7 = 1484

$$\begin{array}{r} 212 \\ \times\ 7 \\ \hline 1484 \end{array}$$

8. In 1 day shopkeeper earn = ₹ 1250
In 8 days shopkeeper earn = ₹ 1250 × 8
= ₹ 10000

$$\begin{array}{r} 1250 \\ \times\ 8 \\ \hline 10000 \end{array}$$

9. In 1 bus people can sit = 48
In 76 buses people can sit = 48 × 76 = 3648

$$\begin{array}{r} 48 \\ \times\ 76 \\ \hline 288 \\ 336\times \\ \hline 3648 \end{array}$$

10. Pages in 1 newspaper = 28

Pages in 45 newspaper = 28 × 45 = 1260

$$\begin{array}{r} 28 \\ \times\ 45 \\ \hline 240 \\ 112\times \\ \hline 1260 \end{array}$$

11. Apples in 1 box = 15

Apples in 242 boxes = 242 × 15 = 3630

$$\begin{array}{r} 242 \\ \times\ 15 \\ \hline 1210 \\ 242\times \\ \hline 3630 \end{array}$$

12. Weight of 1 bag of rice = 32 kg

Weight of 275 bags of rice = 32 × 257 kg

= 8224 kg

$$\begin{array}{r} 257 \\ \times\ 32 \\ \hline 514 \\ 771\times \\ \hline 8224 \end{array}$$

13. In 1 trip passengers carried = 334

In 73 trips passengers carried = 334 × 73 = 24382

$$\begin{array}{r} 334 \\ \times\ 73 \\ \hline 1002 \\ 2338\times \\ \hline 24382 \end{array}$$

14. Cost of 1 pack of noodles = ₹ 56

Cost of 63 packs of noodles = 56 × 63

= ₹ 3528

$$\begin{array}{r} 56 \\ \times\ 63 \\ \hline 168 \\ 336\times \\ \hline 3528 \end{array}$$

15. In 1 truck bags carried $= 456$
In 67 trucks bags carried $= 456 \times 67 = 30552$

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

16. 1 bag of rice weighs $= 58$ kg
200 bags of rice weighs $= 58 \times 200$
$= 11600$ kg

$$\begin{array}{r} 2\ 0\ 0 \\ \times\ 5\ 8 \\ \hline 1\ 6\ 0\ 0 \\ 1\ 0\ 0\ 0\ \times \\ \hline 1\ 1\ 6\ 0\ 0 \\ \hline \end{array}$$

17. Product of 58 and 263 $= 15254$

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

18. Deposits of 1 week $=$ ₹ 765
Deposits of 12 weeks (3 months) $=$ ₹ 765×12
$=$ ₹ 9180

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

19. Capacity of 1 tanker $= 165\ l$
Capacity of 45 tanker $= 165 \times 45\ l$
$= 7425\ l$

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

20. Distance travel by train in 1 day = 445 km

Distance travel by train in 45 days = 445 × 45 km = 20025 km

$$\begin{array}{r} 4\ 4\ 5 \\ \times\ 4\ 5 \\ \hline 2\ 2\ 2\ 5 \\ 1\ 7\ 8\ 0\ \times \\ \hline 2\ 0\ 0\ 2\ 5 \\ \hline \end{array}$$

21. Cost of 1 dollar = ₹ 71

Cost of 35 dollars = ₹ 71 × 35 = ₹ 2485

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

22. Prerna earning in 1 month = ₹ 7565

Prerna earning in 6 months $\left(\frac{1}{2}\text{ year}\right)$ = ₹ 7565 × 6 = ₹ 45390

$$\begin{array}{r} 7\ 5\ 6\ 5 \\ \times\ 6 \\ \hline 4\ 5\ 3\ 9\ 0 \\ \hline \end{array}$$

23. Fees of 1 student = ₹ 550

Fees of 120 students = ₹ 550 × 120 = ₹ 66000

$$\begin{array}{r} 5\ 5\ 0 \\ \times\ 1\ 2\ 0 \\ \hline 0\ 0\ 0 \\ 1\ 1\ 0\ 0\ \times \\ 5\ 5\ 0\ \times\ \times \\ \hline 6\ 6\ 0\ 0\ 0 \\ \hline \end{array}$$

24. Time taken by bus in 1 trip = 6 hours

Time taken by bus in 359 trips = 6 × 359 = 2154 hours

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

25. Capacity of 1 fuel tank = 475 *l*

Capacity of 45 fuel tanks = 475 × 45 *l* = 21375 *l*

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

26. Weight of 1 cement bag = 59 kg

Weight of 125 cement bags = 59 × 125

= 7375 kg

$$\begin{array}{r} 125 \\ \times\ 59 \\ \hline 1125 \\ 625\times \\ \hline 7375 \\ \hline \end{array}$$

27. Number of mangoes in 1 basket = 345

Number of mangoes in 375 baskets = 345 × 375

= 1,29,375

$$\begin{array}{r} 345 \\ \times\ 375 \\ \hline 1725 \\ 2415\times \\ 1035\times\times \\ \hline 129375 \\ \hline \end{array}$$

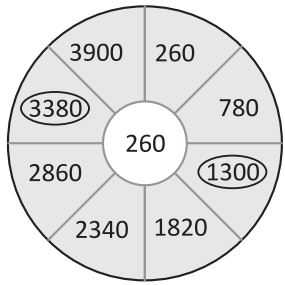
MCQs

1. (a) **2.** (b) **3.** (a)

4. (b)

$$\begin{array}{r} 76 \\ \times\ 15 \\ \hline 380 \\ 76\times \\ \hline 1140 \\ \hline \end{array}$$

Mental Maths



∵

$$\begin{array}{r} 260 \\ +520 \\ \hline 780 \\ +520 \\ \hline 1300 \\ +520 \\ \hline 1820 \\ +520 \\ \hline 2340 \\ +520 \\ \hline 2860 \\ +520 \\ \hline 3380 \\ +520 \\ \hline 3900 \end{array}$$

Test Exercise

1. (a)

$$\begin{array}{r} 28 \\ \times\ 6 \\ \hline 168 \\ \hline \end{array}$$

(b)

$$\begin{array}{r} 936 \\ \times\ 4 \\ \hline 3744 \\ \hline \end{array}$$

(c)

$$\begin{array}{r} 42 \\ \times\ 75 \\ \hline 210 \\ +\ 294\ \times \\ \hline 3150 \\ \hline \end{array}$$

2. In 1 row number of students $= 15$

In 19 rows number of students $= 15 \times 19 = 285$

$$\begin{array}{r} 19 \\ \times\ 15 \\ \hline 95 \\ 19\ \times \\ \hline 285 \\ \hline \end{array}$$

3. (a) $34 \times 10 =$ **340**

(b) **44** $\times 100 = 4400$

(c) $10 \times 65 =$ **650**

(d) $37 \times 100 =$ **3700**

(e) $93 \times 7 =$ **651**

$$\begin{array}{r} 93 \\ \times\ 7 \\ \hline 651 \\ \hline \end{array}$$

(f) $333 \times 3 =$ **999**

(g) $562 \times 6 =$ **3372**

$$\begin{array}{r} 562 \\ \times\ 6 \\ \hline 3372 \\ \hline \end{array}$$

(h) $93 \times 72 =$ **6696**

$$\begin{array}{r} 93 \\ \times\ 72 \\ \hline 186 \\ 651\ \times \\ \hline 6696 \\ \hline \end{array}$$

(i) $60 \times 47 =$ **2820**

$$\begin{array}{r} 60 \\ \times\ 47 \\ \hline 420 \\ 240\ \times \\ \hline 2820 \\ \hline \end{array}$$

4. (a) 75 pages and 6 books

In 1 book there are 75 pages. How many pages are there in 6 books

(b) If on 1 desk 2 students can sit. How many students can sit in 15 desks

5. (a) 69×16

$$\begin{array}{r} 16 \\ \times\ 69 \\ \hline 144 \\ 96\ \times \\ \hline 1104 \\ \hline \end{array}$$

$\therefore\ 69 \times 16 = 1104$

(b) 29×27

$$\begin{array}{r} 29 \\ \times\ 27 \\ \hline 203 \\ 58\ \times \\ \hline 783 \\ \hline \end{array}$$

$\therefore\ 29 \times 27 = 783$

(c) 46×32

$$\begin{array}{r} 46 \\ \times\ 32 \\ \hline 92 \\ 138\ \times \\ \hline 1472 \\ \hline \end{array}$$

$\therefore\ 46 \times 32 = 1472$

(d) 93×17

$$\begin{array}{r} 9\ 3 \\ \times\ 1\ 7 \\ \hline 6\ 5\ 1 \\ 9\ 3\ \times \\ \hline 1\ 5\ 8\ 1 \\ \hline \end{array}$$

$\therefore\ 93 \times 17 = 1581$

6. (a) $61 \times 11 = 61 \times (10+1) = 61 \times 10 + 61 \times 1 = 610 + 61 = 671$

(b) $77 \times 8 = 77 \times (10-2) = 77 \times 10 - 77 \times 2 = 770 - 154 = 616$

(c) $85 \times 11 = 85 \times (10+1) = 85 \times 10 + 85 \times 1 = 850 + 85 = 935$

(d) $6 \times 29 = 6 \times (30-1) = 6 \times 30 - 6 = 180 - 6 = 174$

7. Chocolates made in 1 day $= 35$

Chocolates made in 92 days $= 35 \times 92$

$= 3220$

$$\begin{array}{r} 9\ 2 \\ \times\ 3\ 5 \\ \hline 4\ 6\ 0 \\ 2\ 7\ 6\ \times \\ \hline 3\ 2\ 2\ 0 \\ \hline \end{array}$$

8. Points in 1 category $= 72$

Points in 9 categories $= 72 \times 9$

$= 648$

$$\begin{array}{r} 7\ 2 \\ \times\ 9 \\ \hline 6\ 4\ 8 \\ \hline \end{array}$$

9. (a) 69×5

(i) Product of 69 and 5 (ii) 69 times 5 will be

(b) 24×12

(i) Product of 24 and 12 (ii) 24 times 12 will be

(c) 159×8

(i) Product of 159 and 8 equals to

(ii) 159 times 8 will be

(d) 195×6

(i) Product of 195 and 6 equals to

(ii) 195 times 6 will equal to

10. Marbles in 1 packet $= 44$

Marbles in 7 packets $= 44 \times 7 = 308$

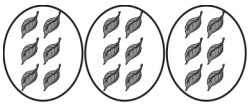
$$\begin{array}{r} 4\ 4 \\ \times\ 7 \\ \hline 3\ 0\ 8 \\ \hline \end{array}$$

7 Division

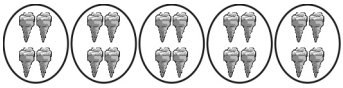
Exercise- 7.1

1. $24 \div 6 = \boxed{4}$

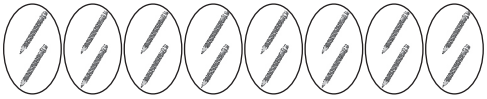
2. (a) $18 \div 6 = \boxed{3}$



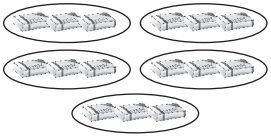
(b) $20 \div 4 = \boxed{5}$



(c) $16 \div 2 = \boxed{8}$



(d) $15 \div 3 = \boxed{5}$



3. (a) $12 \div 6 = 2$

1	2	①
–	6	
	6	②
–	6	
	0	

2 or $12 \div 6 =$ ②

(b) 9 from 27

2	7	①
–	9	
1	8	②
–	9	
	9	③
–	9	
	0	

3 or $27 \div 9 =$ ③

(c) 4 from 20

2	0	
–	4	①
1	6	
–	4	②
1	2	
–	4	③
	8	
–	4	④
	4	
–	4	⑤
	0	

5 or 20 ÷ 4 = ⑤

(d) 6 from 24

2	4	
–	6	①
1	8	
–	6	②
1	2	
–	6	③
	6	
–	6	④
	0	

4 or 24 ÷ 6 = ④

Exercise- 7.2

1. (a) $9 \times 8 = 72$; $72 \div 8 = 9$; $72 \div 9 = 8$
(b) $7 \times 2 = 14$; $14 \div 2 = 7$; $14 \div 7 = 2$
(c) $8 \times 6 = 48$; $48 \div 6 = 8$; $48 \div 8 = 6$
(d) $9 \times 2 = 18$; $18 \div 2 = 9$; $18 \div 9 = 2$
(e) $6 \times 7 = 42$; $42 \div 7 = 6$; $42 \div 6 = 7$
(f) $7 \times 8 = 56$; $56 \div 8 = 7$; $56 \div 7 = 8$

2. (a) $28 \div 7 = \boxed{4}$ (b) $\boxed{40} \div 5 = 8$ (c) $30 \div \boxed{3} = 10$
(d) $\boxed{72} \div 8 = 9$ (e) $63 \div \boxed{7} = 9$ (f) $56 \div \boxed{7} = 8$
(g) $32 \div 4 = \boxed{8}$ (h) $\boxed{35} \div 5 = 7$ (i) $42 \div \boxed{7} = 6$

Exercise- 7.3

1. (a) $9 \div 9 = \boxed{1}$ (b) $462 \div 1 = \boxed{462}$ (c) $364 \div 0 =$ not defined
(d) $0 \div 1598 = \boxed{0}$ (e) $16 \div 1 = \boxed{16}$ (f) $28 \div 28 = \boxed{1}$
(g) $0 \div 6773 = \boxed{0}$ (h) $9009 \div 9009 = \boxed{1}$ (i) $5167 \div 1 = \boxed{5167}$

2. (a) $718 \div \boxed{1} = 718$ (b) $0 \div 7425 = \boxed{0}$ (c) $\boxed{1132} \div 1132 = 1$
(d) $5421 \div 1 = \boxed{5421}$ (e) $9378 \div 9378 = \boxed{1}$
(f) $0 \div \boxed{\text{any natural number}} = 0$

Exercise- 7.4

1. (a) $46 \div 2$

$$\begin{array}{r} 23 \\ 2\overline{)46} \\ -4 \\ \hline 06 \\ -06 \\ \hline 0 \end{array}$$

$\therefore\ 46 \div 2 = 23$

(b) $44 \div 4$

$$\begin{array}{r} 11 \\ 4\overline{)44} \\ -4 \\ \hline 04 \\ -04 \\ \hline 0 \end{array}$$

$\therefore\ 44 \div 4 = 11$

(c) $63 \div 3$

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

$\therefore\ 63 \div 3 = 21$

(d) $96 \div 3$

$$\begin{array}{r} 32 \\ 3\overline{)96} \\ -9 \\ \hline 06 \\ -6 \\ \hline 0 \end{array}$$

$\therefore\ 96 \div 3 = 32$

(e) $42 \div 2$

$$\begin{array}{r} 21 \\ 2\overline{)42} \\ -4 \\ \hline 02 \\ -02 \\ \hline 0 \end{array}$$

$\therefore\ 42 \div 2 = 21$

(f) $88 \div 4$

$$\begin{array}{r} 22 \\ 4\overline{)88} \\ -8 \\ \hline 08 \\ -08 \\ \hline 0 \end{array}$$

$\therefore\ 88 \div 4 = 22$

(g) $82 \div 2$

$$\begin{array}{r} 41 \\ 2\overline{)82} \\ -8 \\ \hline 02 \\ -02 \\ \hline 0 \end{array}$$

$\therefore\ 82 \div 2 = 41$

(h) $99 \div 3$

$$\begin{array}{r} 33 \\ 3\overline{)99} \\ -9 \\ \hline 09 \\ -09 \\ \hline 0 \end{array}$$

$\therefore\ 99 \div 3 = 33$

(i) $77 \div 7$

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

$\therefore\ 77 \div 7 = 11$

(j) $69 \div 3$

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

$\therefore\ 69 \div 3 = 23$

(k) $80 \div 8$

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

$\therefore\ 80 \div 8 = 10$

(l) $99 \div 9$

$$\begin{array}{r} 11 \\ 9\overline{)99} \\ -9 \\ \hline 09 \\ -09 \\ \hline 0 \end{array}$$

$\therefore\ 99 \div 9 = 11$

(m) $84 \div 4$

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

$\therefore\ 84 \div 4 = 21$

(n) $68 \div 2$

$$\begin{array}{r} 34 \\ 2\overline{)68} \\ -6 \\ \hline 08 \\ -08 \\ \hline 0 \end{array}$$

$\therefore\ 68 \div 2 = 34$

(o) $55 \div 5$

$$\begin{array}{r} 11 \\ 5\overline{)55} \\ -5 \\ \hline 05 \\ -05 \\ \hline 0 \end{array}$$

$\therefore\ 55 \div 5 = 11$

(p) $69 \div 3$

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

$\therefore\ 69 \div 3 = 23$

2. (a) $72 \div 4$

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

$\therefore\ 72 \div 4 = 18$

(b) $95 \div 5$

$$\begin{array}{r} 19 \\ 5\overline{)95} \\ -5 \\ \hline 45 \\ -45 \\ \hline 0 \end{array}$$

$\therefore\ 95 \div 5 = 19$

(c) $75 \div 3$

$$\begin{array}{r} 25 \\ 3\overline{)75} \\ -6 \\ \hline 15 \\ -15 \\ \hline 0 \end{array}$$

$\therefore\ 75 \div 3 = 25$

(d) $96 \div 4$

$$\begin{array}{r} 24 \\ 4\overline{)96} \\ -8 \\ \hline 16 \\ -16 \\ \hline 0 \end{array}$$

$\therefore\ 96 \div 4 = 24$

(e) $52 \div 2$

$$\begin{array}{r} 26 \\ 2\overline{)52} \\ -4 \\ \hline 12 \\ -12 \\ \hline 0 \end{array}$$

$\therefore\ 52 \div 4 = 26$

(f) $65 \div 5$

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

$\therefore\ 65 \div 5 = 13$

(g) $90 \div 5$

$$\begin{array}{r} 18 \\ 5\overline{)90} \\ -5 \\ \hline 40 \\ -40 \\ \hline 0 \end{array}$$

$\therefore\ 90 \div 5 = 18$

(h) $57 \div 3$

$$\begin{array}{r} 19 \\ 3\overline{)57} \\ -3 \\ \hline 27 \\ -27 \\ \hline 0 \end{array}$$

$\therefore\ 57 \div 3 = 19$

(i) $64 \div 4$

$$\begin{array}{r} 16 \\ 4\overline{)64} \\ -4 \\ \hline 24 \\ -24 \\ \hline 0 \end{array}$$

$\therefore\ 64 \div 4 = 16$

(j) $76 \div 2$

$$\begin{array}{r} 38 \\ 2\overline{)76} \\ -6 \\ \hline 16 \\ -16 \\ \hline 0 \end{array}$$

$\therefore\ 76 \div 2 = 38$

(k) $98 \div 7$

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

$\therefore\ 98 \div 7 = 14$

(l) $96 \div 8$

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

$\therefore\ 96 \div 8 = 12$

(m) $48 \div 4$

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

$\therefore\ 48 \div 4 = 12$

(n) $65 \div 5$

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

$\therefore\ 65 \div 5 = 13$

(o) $91 \div 7$

$$\begin{array}{r} 13 \\ 7\overline{)91} \\ -7 \\ \hline 21 \\ -21 \\ \hline 0 \end{array}$$

$\therefore\ 91 \div 7 = 13$

(p) $72 \div 6$

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

$\therefore\ 72 \div 6 = 12$

(q) $92 \div 4$

$$\begin{array}{r} 23 \\ 4\overline{)92} \\ -8 \\ \hline 12 \\ -12 \\ \hline 0 \end{array}$$

$\therefore\ 92 \div 4 = 23$

(r) $48 \div 7$

$$\begin{array}{r} 12 \\ 7\overline{)84} \\ -7 \\ \hline 14 \\ -14 \\ \hline 0 \end{array}$$

$\therefore\ 84 \div 7 = 12$

(s) $75 \div 3$

$$\begin{array}{r} 25 \\ 3\overline{)75} \\ -6 \\ \hline 15 \\ -15 \\ \hline 0 \end{array}$$

$\therefore\ 75 \div 3 = 25$

(t) $95 \div 5$

$$\begin{array}{r} 19 \\ 5\overline{)95} \\ -5 \\ \hline 45 \\ -45 \\ \hline 0 \end{array}$$

$\therefore\ 95 \div 5 = 19$

Exercise- 7.5

1. (a) $555 \div 5$

$$\begin{array}{r} 111 \\ 5\overline{)555} \\ -5 \\ \hline 05 \\ -5 \\ \hline 05 \\ -05 \\ \hline 0 \end{array}$$

$\therefore\ 555 \div 5 = 111$

(b) $168 \div 2$

$$\begin{array}{r} 84 \\ 2\overline{)168} \\ -16 \\ \hline 08 \\ -08 \\ \hline 0 \end{array}$$

$\therefore\ 168 \div 2 = 84$

(c) $962 \div 2$

$$\begin{array}{r} 481 \\ 2\overline{)962} \\ -8 \\ \hline 16 \\ -16 \\ \hline 02 \\ -02 \\ \hline 0 \end{array}$$

$\therefore\ 962 \div 2 = 481$

(d) $408 \div 4$

$$\begin{array}{r} 102 \\ 4\overline{)408} \\ -4 \\ \hline 008 \\ -8 \\ \hline 0 \end{array}$$

$\therefore 408 \div 4 = 102$

(e) $888 \div 8$

```
   111
8 ) 888
  −8
   08
  −8
    08
   −8
     0
```

$\therefore\ 888 \div 8 = 111$

(f) $660 \div 3$

```
   220
3 ) 660
  −6
   06
  −6
    00
```

$\therefore\ 660 \div 3 = 220$

(g) $600 \div 6$

```
   100
6 ) 600
  −6
   000
```

$\therefore\ 660 \div 6 = 100$

(h) $286 \div 2$

```
   143
2 ) 286
  −2
   08
  −8
    06
   −06
     0
```

$\therefore 286 \div 2 = 143$

(i) $369 \div 3$

```
   123
3 ) 369
  −3
   06
  −6
    09
   −09
     0
```

$\therefore\ 369 \div 3 = 123$

(j) $488 \div 4$

```
   122
4 ) 488
  −4
   08
  −8
    08
   −08
     0
```

$\therefore\ 488 \div 4 = 122$

(k) $684 \div 2$

```
   342
2 ) 684
  −6
   08
  −08
    04
   −4
    0
```

$\therefore\ 684 \div 2 = 342$

(l) $963 \div 3$

```
   321
3 ) 963
  −9
   06
  −6
    03
   −03
     0
```

$\therefore 963 \div 3 = 321$

2. (a) $672 \div 3$

```
   224
3 ) 672
  −6
   07
  −06
    12
   −12
     0
```

$\therefore\ 672 \div 3 = 224$

(b) $984 \div 8$

```
   123
8 ) 984
  −8
   18
  −16
    24
   −24
     0
```

$\therefore\ 984 \div 8 = 123$

(c) $362 \div 2$

```
   181
2 ) 362
  −2
   16
  −16
    02
   −02
     0
```

$\therefore\ 362 \div 2 = 181$

(d) $784 \div 7$

```
   112
7 ) 784
  −7
   08
  −7
    14
   −14
     0
```

$\therefore 784 \div 7 = 112$

(e) $952 \div 4$

```
   238
4 ) 952
  −8
   15
  −12
    32
   −32
     0
```

$\therefore\ 952 \div 4 = 238$

(f) $520 \div 2$

```
   260
2 ) 520
  −4
   12
  −12
    00
```

$\therefore\ 520 \div 2 = 260$

(g) $834 \div 6$

```
   139
6 ) 834
  −6
   23
  −18
    54
   −54
     0
```

$\therefore\ 834 \div 6 = 139$

(h) $375 \div 5$

```
   75
5 ) 375
  −35
   25
  −25
    0
```

$\therefore 375 \div 5 = 75$

(i) $912 \div 8$

$$\begin{array}{r} 114 \\ 8\,\overline{)\,912} \\ -8 \\ \hline 11 \\ -8 \\ \hline 32 \\ -32 \\ \hline 0 \end{array}$$

$\therefore\ 912 \div 8 = 114$

(j) $726 \div 6$

$$\begin{array}{r} 121 \\ 6\,\overline{)\,726} \\ -6 \\ \hline 12 \\ -12 \\ \hline 06 \\ -06 \\ \hline 0 \end{array}$$

$\therefore\ 726 \div 6 = 121$

(k) $976 \div 8$

$$\begin{array}{r} 122 \\ 8\,\overline{)\,976} \\ -8 \\ \hline 17 \\ -16 \\ \hline 16 \\ -16 \\ \hline 0 \end{array}$$

$\therefore\ 976 \div 8 = 122$

(l) $836 \div 4$

$$\begin{array}{r} 209 \\ 4\,\overline{)\,836} \\ -8 \\ \hline 036 \\ -36 \\ \hline 0 \end{array}$$

$\therefore 836 \div 4 = 209$

(m) $924 \div 7$

$$\begin{array}{r} 132 \\ 7\,\overline{)\,924} \\ -7 \\ \hline 22 \\ -21 \\ \hline 14 \\ -14 \\ \hline 0 \end{array}$$

$\therefore\ 924 \div 7 = 132$

(n) $852 \div 4$

$$\begin{array}{r} 213 \\ 4\,\overline{)\,852} \\ -8 \\ \hline 05 \\ -4 \\ \hline 12 \\ -12 \\ \hline 0 \end{array}$$

$\therefore\ 852 \div 4 = 213$

(o) $783 \div 9$

$$\begin{array}{r} 87 \\ 9\,\overline{)\,783} \\ -72 \\ \hline 63 \\ -63 \\ \hline 0 \end{array}$$

$\therefore\ 783 \div 9 = 87$

(p) $994 \div 7$

$$\begin{array}{r} 142 \\ 7\,\overline{)\,994} \\ -7 \\ \hline 29 \\ -28 \\ \hline 14 \\ -14 \\ \hline 0 \end{array}$$

$\therefore 994 \div 7 = 142$

Exercise- 7.6

1. (a)

$$\begin{array}{r} 9 \\ 7\,\overline{)\,65} \\ -63 \\ \hline 2 \end{array}$$

Check

Dividend $=$ Divisor $\times$ Q $+$ R

$= 7 \times 9 + 2 = 63 + 2$

$65 = 65$

$\therefore$ Quotient $= 9$; Remainder $= 2$

(b)

$$\begin{array}{r} 5 \\ 4\,\overline{)\,22} \\ -20 \\ \hline 2 \end{array}$$

Check

Dividend $=$ Divisor $\times$ Q $+$ R

$= 4 \times 5 + 2 = 20 + 2$

$22 = 22$

$\therefore$ Quotient $= 5$; Remainder $= 2$

(c)

$$\begin{array}{r} 9 \\ 5\,\overline{)\,48} \\ -45 \\ \hline 3 \end{array}$$

Check

Dividend $=$ Divisor $\times$ Q $+$ R

$48 = 5 \times 9 + 3$

$48 = 45 + 3$

$48 = 48$

$\therefore$ Quotient $= 9$; Remainder $= 3$

(d)

$$\begin{array}{r} 9 \\ 6\overline{)56} \\ -54 \\ \hline 2 \end{array}$$

Check

Dividend = Divisor × Q + R

$56 = 6 \times 9 + 2$

$56 = 54 + 2$

$56 = 56$

∴ Quotient = 9; Remainder = 2

(e)

$$\begin{array}{r} 23 \\ 2\overline{)47} \\ -4 \\ \hline 07 \\ -6 \\ \hline 1 \end{array}$$

Check

Dividend = Divisor × Q + R

$47 = 2 \times 23 + 1$

$47 = 46 + 1$

$47 = 47$

∴ Quotient = 23; Remainder = 1

(f)

$$\begin{array}{r} 211 \\ 3\overline{)635} \\ -6 \\ \hline 03 \\ -03 \\ \hline 05 \\ -03 \\ \hline 2 \end{array}$$

Check

Dividend = Divisor × Q + R

$635 = 3 \times 211 + 1$

$= 633 + 2$

$635 = 635$

∴ Quotient = 211; Remainder = 2

(g)

$$\begin{array}{r} 463 \\ 2\overline{)927} \\ -8 \\ \hline 12 \\ -12 \\ \hline 07 \\ -06 \\ \hline 1 \end{array}$$

Check

Dividend = Divisor × Q + R

$927 = 2 \times 463 + 1$

$927 = 926 + 1$

$927 = 927$

∴ Quotient = 463; Remainder = 1

(h)

$$\begin{array}{r} 101 \\ 4\overline{)406} \\ -4 \\ \hline 006 \\ -4 \\ \hline 2 \end{array}$$

Check

Dividend = Divisor × Q + R

$406 = 4 \times 101 + 2$

$= 404 + 2$

$406 = 406$

∴ Quotient = 101; Remainder = 2

(i)

```
   112
3 ) 337
   −3
   ---
    03
    −3
   ---
     07
     −6
   ---
      1
```

Check

Dividend = Divisor × Q + R

$337 = 3 \times 112 + 1$

$337 = 336 + 1$

$337 = 337$

∴ Quotient = 112; Remainder = 1

(j)

```
   111
5 ) 559
   −5
   ---
    05
    −5
   ---
     09
     −5
   ---
     04
```

Check

Dividend = Divisor × Q + R

$559 = 5 \times 111 + 4$

$559 = 555 + 4$

$559 = 559$

∴ Quotient = 111; Remainder = 4

(k)

```
   126
7 ) 888
   −7
   ---
    18
   −14
   ---
     48
    −42
   ---
      6
```

Check

Dividend = Divisor × Q + R

$888 = 7 \times 126 + 6$

$880 = 882 + 6$

$888 = 888$

∴ Quotient = 126; Remainder = 6

(l)

```
   212
4 ) 849
   −8
   ---
    04
    −4
   ---
     09
    −08
   ---
      1
```

Check

Dividend = Divisor × Q + R

$849 = 4 \times 212 + 1$

$= 848 + 1$

$849 = 849$

∴ Quotient = 212; Remainder = 1

(m)

```
   302
3 ) 907
   −9
   ---
   007
    −6
   ---
     1
```

Check

Dividend = Divisor × Q + R

$= 3 \times 302 + 1$

$907 = 906 + 1$

$907 = 907$

∴ Quotient = 302; Remainder = 1

(n)

```
   221
2 ) 443
   −4
   ---
    04
    −4
   ---
     03
    −02
   ----
      1
```

Check

Dividend = Divisor × Q + R

$443 = 2 \times 221 + 1$

$= 442 + 1$

$443 = 443$

∴ Quotient = 221; Remainder = 1

(o)

```
   111
6 ) 667
   −6
   ---
    06
   −06
   ---
     07
     −6
   ---
      1
```

Check

Dividend = Divisor × Q + R

$667 = 6 \times 111 + 1$

$= 666 + 1$

$667 = 667$

∴ Quotient = 111; Remainder = 1

(p)

```
   129
5 ) 647
   −5
   ---
    14
   −10
   ---
     47
    −45
   ----
      2
```

Check

Dividend = Divisor × Q + R

$647 = 5 \times 129 + 2$

$= 645 + 2$

$647 = 647$

∴ Quotient = 129; Remainder = 2

(q)

```
    90
6 ) 544
   −54
   ---
    04
```

Check

Dividend = Divisor × Q + R

$544 = 6 \times 90 + 4$

$= 540 + 4$

$544 = 544$

∴ Quotient = 90; Remainder = 04

(r)

```
   133
7 ) 937
   −7
   ---
    23
   −21
   ---
     27
    −21
   ----
      6
```

Check

Dividend = Divisor × Q + R

$937 = 7 \times 133 + 6$

$= 931 + 6$

$937 = 937$

∴ Quotient = 6; Remainder = 6

(s)

```
      93
8 ) 746
   −72
    26
   −24
     2
```

Check

Dividend = Divisor × Q + R

746 = 8 × 93 + 2

= 744 + 2

746 = 746

∴ Quotient = 93; Remainder = 2

(t)

```
      219
4 ) 879
   −8
    07
   −4
     39
    −36
      3
```

Check

Dividend = Divisor × Q + R

879 = 4 × 219 + 3

= 876 + 3

879 = 879

∴ Quotient = 219; Remainder = 3

Exercise- 7.7

1.

	Division	Quotient	Remainder
a.	70 ÷ 10	7	0
b.	85 ÷ 10	8	5
c.	42 ÷ 10	4	2
d.	300 ÷ 10	30	0
e.	628 ÷ 10	62	8
f.	520 ÷ 10	52	0
g.	799 ÷ 10	79	9
h.	808 ÷ 10	80	8

2.

	Division	Quotient	Remainder
a.	62 ÷ 10	6	2
b.	75 ÷ 10	7	5
c.	80 ÷ 10	8	0
d.	91 ÷ 10	9	1
e.	204 ÷ 10	20	4
f.	3625 ÷ 10	362	5
g.	810 ÷ 10	81	0
h.	905 ÷ 10	90	5

i.	$3750 \div 10$	375	0
j.	$2107 \div 10$	210	7

3.

	Division	Quotient	Remainder
a.	$460 \div 100$	4	60
b.	$800 \div 100$	8	0
c.	$9135 \div 100$	91	35
d.	$7602 \div 100$	76	2
e.	$7760 \div 100$	77	60
f.	$2914 \div 100$	29	14
g.	$808 \div 100$	8	8
h.	$806 \div 100$	8	6
i.	$2105 \div 100$	21	5
j.	$7097 \div 100$	70	97
k.	$56070 \div 100$	560	70
l.	$59400 \div 100$	594	00

Exercise- 7.8

1. (a)

$$\begin{array}{r} 16 \\ 13\overline{)208} \\ -13 \\ \hline 78 \\ -78 \\ \hline 0 \end{array}$$

Check

Dividend $=$ Divisor $\times$ Q $+$ R

$208 = 13 \times 16 + 0$

$= 208 + 0$

$208 = 208$

$\therefore$ Quotient $= 16$; Remainder $= 0$

(b)

$$\begin{array}{r} 18 \\ 11\overline{)204} \\ -11 \\ \hline 94 \\ -88 \\ \hline 6 \end{array}$$

Check

Dividend $=$ Divisor $\times$ Q $+$ R

$204 = 11 \times 18 + 6$

$204 = 198 + 6$

$204 = 204$

$\therefore$ Quotient $= 18$; Remainder $= 6$

(c)

$$\begin{array}{r} 59 \\ 15\overline{)890} \\ -75 \\ \hline 140 \\ -135 \\ \hline 5 \end{array}$$

Check

Dividend $=$ Divisor $\times$ Q $+$ R

$890 = 15 \times 59 + 5$

$890 = 885 + 5$

$890 = 890$

$\therefore$ Quotient $= 59$; Remainder $= 5$

(d)

```
      47
15 ) 707
     −60
     ----
      107
     −105
     ----
        2
```

Check

Dividend = Divisor × Q + R

$707 = 15 \times 47 + 2$

$707 = 705 + 2$

$707 = 707$

∴ Quotient = 47; Remainder = 2

(e)

```
      463
12 ) 5562
     −48
     ----
       76
      −72
     ----
        42
       −36
     ----
         6
```

Check

Dividend = Divisor × Q + R

$5562 = 12 \times 463 + 6$

$5562 = 5556 + 6$

$5562 = 5562$

∴ Quotient = 463; Remainder = 6

(f)

```
      40
19 ) 769
     −76
     ----
      09
```

Check

Dividend = Divisor × Q + R

$769 = 19 \times 40 + 9$

$= 760 + 9$

$769 = 769$

∴ Quotient = 09; Remainder = 9

(g)

```
      208
16 ) 3340
     −32
     ----
      140
     −128
     ----
       12
```

Check

Dividend = Divisor × Q + R

$3340 = 16 \times 208 + 12$

$= 3328 + 12$

$3340 = 3340$

∴ Quotient = 208; Remainder = 12

(h)

```
      476
14 ) 6675
     −56
     ----
      107
      −98
     ----
        95
       −84
     ----
        11
```

Check

Dividend = Divisor × Q + R

$6675 = 14 \times 476 + 11$

$6675 = 6664 + 11$

$6675 = 6675$

∴ Quotient = 476; Remainder = 11

(i)

```
      216
18 ) 3892
     −36
      29
     −18
      112
     −108
        4
```

Check

Dividend = Divisor × Q + R

$3892 = 18 \times 216 + 4$

$3892 = 3888 + 4$

$3892 = 3892$

∴ Quotient = 216; Remainder = 4

(j)

```
      102
18 ) 1845
     −18
      045
     −36
        9
```

Check

Dividend = Divisor × Q + R

$1845 = 18 \times 102 + 9$

$= 1836 + 9$

$1845 = 1845$

∴ Quotient = 102; Remainder = 9

2. (a)

```
      408
16 ) 6542
     −64
      142
     −128
        14
```

Quotient = 408

Remainder = 14

(b)

```
      369
12 ) 4428
     −36
      82
     −72
      108
     −108
        0
```

Quotient = 369

Remainder = 0

(c)

```
      87
51 ) 4451
     −408
      371
     −357
        14
```

Quotient = 87

Remainder = 14

(d)

```
      233
14 ) 3274
     −28
      47
     −42
      54
     −42
      12
```

Quotient = 233

Remainder = 12

(e)

```
      465
15 ) 6978
     −60
      97
     −90
      78
     −75
       3
```

Quotient = 465

Remainder = 3

(f)

```
      545
10 ) 5457
     −50
      45
     −40
      57
     −50
       7
```

Quotient = 545

Remainder = 7

(g)

```
      568
11 ) 6257
     −55
      75
     −66
      97
     −88
       9
```

Quotient = 568
Remainder = 9

(h)

```
      453
18 ) 8165
     −72
      96
     −90
      65
     −54
      11
```

Quotient = 453
Remainder = 11

(i)

```
      269
17 ) 4578
     −34
     117
    −102
      158
     −153
        5
```

Quotient = 269
Remainder = 5

(j)

```
      604
14 ) 8468
     −84
      068
     −56
       12
```

Quotient = 604
Remainder = 12

(k)

```
      192
18 ) 3460
     −18
     166
    −162
       40
      −36
        4
```

Quotient = 192
Remainder = 4

3.

		Q	R
(a)	4816 ÷ 16 =	301	0
(b)	372 ÷ 12 =	31	0
(c)	132 ÷ 12 =	11	0
(d)	169 ÷ 13 =	13	0
(e)	220 ÷ 11 =	20	0
(f)	210 ÷ 14 =	15	0
(g)	135 ÷ 15 =	9	0
(h)	774 ÷ 6 =	129	0
(i)	4500 ÷ 15 =	300	0
(j)	9500 ÷ 100 =	95	0

Exercise- 7.9

1. For 8 pencils packet required = 1
For 1 pencil packet required = 1 ÷ 8
For 512 pencils packet required = 512 ÷ 8 = 64

```
      64
8 ) 512
    −48
     32
    −32
      0
```

2. In 8 packets flowers packed = 2008
In 1 packet flowers packed = 2008 ÷ 8 = 251

```
      251
8 ) 2008
   −16
   ----
     40
   −40
   ----
      08
     −08
     ----
        0
```

3. Number of bundles = 325 ÷ 10
= 32 bundles made and 5 sticks are left

```
      32
10 ) 325
    −30
    ----
      25
    −20
    ----
       5
```

4. In 9 rows seats = 216
In 1 rows seats = 216 ÷ 9 = 24

```
      24
9 ) 216
   −18
   ----
     36
   −36
   ----
      0
```

5. In 9 groups toffees distributed 450
In 1 group toffees distributed 450 ÷ 9 = 50

```
      50
9 ) 450
   −45
   ----
     00
```

6. In 6 rows books arranged = 540
In 1 row books arranged = 540 ÷ 6 = 90

```
      90
6 ) 540
   −54
   ----
     00
```

7. Mass of 5 containers = 2790 kg
Mass of 1 container = 2790 ÷ 5 = 558 kg

```
      558
5 ) 2790
   −25
    29
   −25
     40
    040
      0
```

8. 2 wheels required for 1 bicycle
84 wheels required for 84 ÷ 2 bicycle = 42 bicycles

```
     42
2 ) 84
   −8
    04
   −4
     0
```

9. For 5 candles box made = 1
For 1 candle box made = 1 ÷ 5
For 60 candles box made = 60 ÷ 5 = 12

```
     12
5 ) 60
   −5
    10
   −10
     0
```

10. In 7 racks books = 812
In 1 rack books = 812 ÷ 7 = 116

```
      116
7 ) 812
   −7
    11
   −7
     42
   −42
      0
```

11. Each child get sweets = 169 ÷ 8 = 21 sweets and 1 sweet left

```
      21
8 ) 169
   −16
    09
   −8
     1
```

12. In 6 baskets apples = 672

In 1 basket apples = 672 ÷ 6 = 112

```
      112
  6 ) 672
     −6
     ---
      07
     −6
     ---
      12
     −12
     ---
       0
```

13. In 7 days earning = ₹ 630

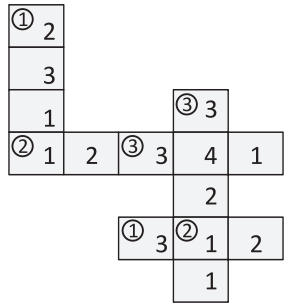
In 1 day earning = ₹ 630 ÷ 7 = ₹ 90

```
      90
  7 ) 630
     −63
     ---
      00
```

MCQs

1. (b) **2.** (a) **3.** (b) **4.** (c)

Mental Maths



Test Exercise

1. (a) 19 ÷ 3

Dividend = 19

Divisor = 3

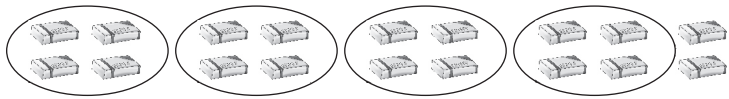
Quotient = 6

Remainder = 1

```
      6
  3 ) 19
     −18
     ---
      01
```

(b) **4** groups of 4 erasers

2 erasers left over



2. (a) $36 \div 5$

$$\begin{array}{r} 7 \\ 5\,\overline{)\,36} \\ -35 \\ \hline 1 \end{array}$$

Quotient $= 7$
Remainder $= 1$

(b) $49 \div 9$

$$\begin{array}{r} 5 \\ 9\,\overline{)\,49} \\ -45 \\ \hline 4 \end{array}$$

Quotient $= 5$
Remainder $= 4$

(c) $39 \div 6$

$$\begin{array}{r} 6 \\ 6\,\overline{)\,39} \\ -36 \\ \hline 3 \end{array}$$

Quotient $= 6$
Remainder $= 3$

(d) $70 \div 8$

$$\begin{array}{r} 8 \\ 8\,\overline{)\,70} \\ -64 \\ \hline 6 \end{array}$$

Quotient $= 8$
Remainder $= 6$

3. (a) $47 \div 7$

$$\begin{array}{r} 6 \\ 7\,\overline{)\,47} \\ -42 \\ \hline 5 \end{array}$$

Correct
Quotient $= 6$
Remainder $= 5$

(b) $89 \div 9$

$$\begin{array}{r} 9 \\ 9\,\overline{)\,89} \\ -81 \\ \hline 8 \end{array}$$

Incorrect
Quotient $= 9$
Remainder $= 8$

4. (a) $692 \div 9$

$$\begin{array}{r} 76 \\ 9\,\overline{)\,692} \\ -63 \\ \hline 62 \\ -54 \\ \hline 8 \end{array}$$

Quotient $= 76$
Remainder $= 8$

Check
Dividend $=$ Divisor $\times$ Q $+$ R
$692 = 9 \times 76 + 8$
$692 = 684 + 8$
$692 = 692$

(b) $396 \div 3$

$$\begin{array}{r} 132 \\ 3\,\overline{)\,396} \\ -3 \\ \hline 09 \\ -9 \\ \hline 06 \\ -06 \\ \hline 0 \end{array}$$

Quotient $= 132$
Remainder $= 0$

Check
Dividend $=$ Divisor $\times$ Q $+$ R
$396 = 3 \times 132 + 0$
$= 396 + 0$
$396 = 396$

(c) $905 \div 9$

$$\begin{array}{r} 100 \\ 9\,\overline{)\,905} \\ -9 \\ \hline 005 \end{array}$$

Quotient $= 100$
Remainder $= 05$

Check
Dividend $=$ Divisor $\times$ Q $+$ R
$905 = 9 \times 100 + 5$
$= 900 + 5$
$905 = 905$

(d) $763 \div 3$

$$\begin{array}{r} 254 \\ 3\,\overline{)\,763} \\ -6 \\ \hline 16 \\ -15 \\ \hline 13 \\ -12 \\ \hline 1 \end{array}$$

Quotient $= 254$

Remainder $= 1$

Check

Dividend $=$ Divisor $\times$ Q $+$ R

$763 = 3 \times 254 + 1$

$= 762 + 1$

$763 = 763$

(e) $185 \div 2$

$$\begin{array}{r} 92 \\ 2\,\overline{)\,185} \\ -18 \\ \hline 05 \\ -04 \\ \hline 1 \end{array}$$

Quotient $= 92$

Remainder $= 1$

Check

Dividend $=$ Divisor $\times$ Q $+$ R

$185 = 2 \times 92 + 1$

$= 184 + 1$

$185 = 185$

(f) $806 \div 7$

$$\begin{array}{r} 115 \\ 7\,\overline{)\,806} \\ -3 \\ \hline 10 \\ -7 \\ \hline 36 \\ -35 \\ \hline 01 \end{array}$$

Quotient $= 115$

Remainder $= 1$

Check

Dividend $=$ Divisor $\times$ Q $+$ R

$806 = 7 \times 115 + 1$

$= 805 + 1$

$806 = 806$

(g) $564 \div 4$

$$\begin{array}{r} 141 \\ 4\,\overline{)\,564} \\ -4 \\ \hline 16 \\ -16 \\ \hline 04 \\ -04 \\ \hline 0 \end{array}$$

Quotient $= 141$

Remainder $= 0$

Check

Dividend $=$ Divisor $\times$ Q $+$ R

$564 = 4 \times 141 + 0$

$= 564 + 0$

$564 = 564$

(h) $108 \div 6$

$$\begin{array}{r} 18 \\ 6\,\overline{)\,108} \\ -6 \\ \hline 48 \\ -48 \\ \hline 0 \end{array}$$

Check

Dividend = Divisor × Q + R

$108 = 6 \times 18 + 0$

$= 108 + 0$

$108 = 108$

Quotient = 18

Remainder = 0

5. (a) Number of packets needed to pack 24 ladoos

$= 24 \div 6 = 4$

$$\begin{array}{r} 4 \\ 6\,\overline{)\,24} \\ -24 \\ \hline 0 \end{array}$$

(b) In 4 children money distributed = ₹ 960

Each child get = ₹ 960 ÷ 4 = ₹ 240

$$\begin{array}{r} 240 \\ 4\,\overline{)\,960} \\ -8 \\ \hline 16 \\ -16 \\ \hline 00 \end{array}$$

(c) Number of cars get tyres = 186 ÷ 4 = 46 and 2 tyres will be left

$$\begin{array}{r} 46 \\ 4\,\overline{)\,186} \\ -16 \\ \hline 26 \\ -24 \\ \hline 02 \end{array}$$

❍❍❍

8 Fractions

Exercise- 8.1

1. (a) $\frac{2}{8}$ (b) $\frac{1}{3}$ (c) $\frac{7}{12}$

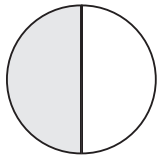
(d) $\frac{2}{3}$ (e) $\frac{1}{2}$ (f) $\frac{3}{4}$

(g) $\frac{1}{2}$ (h) $\frac{2}{4}$ (i) $\frac{6}{8}$

2. Do yourself

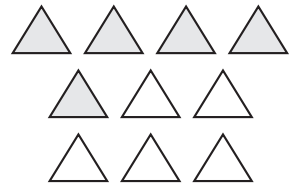
Exercise- 8.2

1. (a)



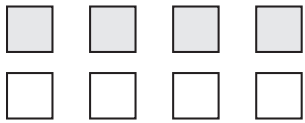
$\frac{1}{2}$ of 2 = $\boxed{1}$

(b)



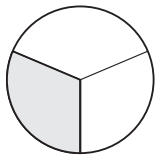
$\frac{1}{2}$ of 10 = $\boxed{5}$

(c)



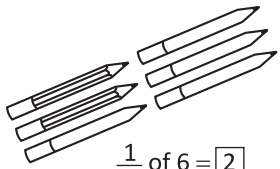
$\frac{1}{2}$ of 8 = $\boxed{4}$

2. (a)



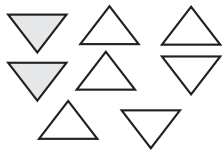
$\frac{1}{3}$ of 3 = $\boxed{1}$

(b)



$\frac{1}{3}$ of 6 = $\boxed{2}$

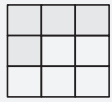
(c)



$\frac{1}{4}$ of 8 = $\boxed{2}$

Exercise- 8.3

1.

	Figures	Shaded part (Numerator)	Total parts (Denominator)	Fraction of shaded part
a.		7	10	7/10
b.		1	4	1/4
c.		4	8	4/8
d.		5	14	5/14
e.		3	8	3/8

2. $\frac{9}{16}$

3. (a) $\frac{3}{8}$
numerator = 3
denominator = 8

(b) $\frac{6}{17}$
numerator = 6
denominator = 17

(c) $\frac{2}{15}$
numerator = 2
denominator = 15

(d) $\frac{6}{19}$
numerator = 6
denominator = 19

4. (a) $\frac{2}{7}$ (b) $\frac{8}{7}$ (c) $\frac{3}{8}$ (d) $\frac{7}{9}$

Exercise- 8.4

1. (a) $\frac{5}{9}$ five nineths

(b) $\frac{4}{7}$ four sevenths

(c) $\frac{3}{6}$ three sixths

(d) $\frac{2}{5}$ two fifths

(e) $\frac{5}{6}$ five sixths (f) $\frac{4}{8}$ four eighths

(g) $\frac{7}{10}$ seven tenths (h) $\frac{1}{5}$ one fifths

2. (a) $\frac{3}{5}$ (b) $\frac{1}{7}$ (c) $\frac{3}{4}$ (d) $\frac{4}{6}$

(e) $\frac{5}{7}$ (f) $\frac{2}{3}$ (g) $\frac{6}{9}$ (h) $\frac{7}{10}$

Exercise- 8.5

1. (a) $\frac{2}{3}=\frac{2\times2}{3\times2}=\frac{2\times3}{3\times3}=\frac{2\times4}{3\times4}$

$=\frac{4}{6}=\frac{6}{9}=\frac{8}{12}$

(b) $\frac{1}{8}=\frac{1\times2}{8\times2}=\frac{1\times3}{8\times3}=\frac{1\times4}{8\times4}$

$=\frac{1}{8}=\frac{2}{16}=\frac{3}{24}=\frac{4}{32}$

(c) $\frac{4}{6}=\frac{4\times2}{6\times2}=\frac{4\times3}{6\times3}=\frac{4\times4}{6\times4}$

$=\frac{8}{12}=\frac{12}{18}=\frac{16}{24}$

(d) $\frac{5}{9}=\frac{5\times2}{9\times2}=\frac{1\times3}{9\times3}=\frac{5\times4}{9\times4}=\frac{5}{9}=\frac{10}{18}=\frac{15}{27}=\frac{20}{36}$

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

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

(e) $\frac{6}{3}, \frac{4}{7}$ ✗ (f) $\frac{8}{7}, \frac{6}{7}$ ✓

Exercise- 8.6

1. (a) $\frac{4}{5} > \frac{3}{5}$ (b) $\frac{6}{9} < \frac{8}{9}$ (c) $\frac{8}{15} > \frac{1}{15}$ (d) $\frac{4}{9} < \frac{4}{8}$

(e) $\frac{1}{3} > \frac{1}{9}$ (f) $\frac{6}{11} = \frac{6}{11}$

2. (a) Akshay $\frac{3}{8}$ > Gori $\frac{2}{8}$

Akshay ate more

(b) Rimmi $\frac{3}{5}$ < Simmi $\frac{3}{4}$ Simmi completed more work

$3 \times 4 < 3 \times 5$

$\because \quad 12 < 15$

Exercise- 8.7

1. (a) $\frac{1}{7}, \frac{1}{9}, \frac{1}{3}$ (b) $\frac{4}{5}, \frac{2}{5}, \frac{3}{5}$ (c) $\frac{7}{13}, \frac{10}{13}, \frac{9}{13}$ (d) $\frac{10}{23}, \frac{10}{21}, \frac{10}{17}$

(e) $\frac{5}{7}, \frac{5}{9}, \frac{5}{11}$ (f) $\frac{7}{27}, \frac{11}{27}, \frac{19}{27}$

2. (a) $\frac{2}{3}, \frac{2}{5}, \frac{2}{7}$ (b) $\frac{3}{11}, \frac{3}{13}, \frac{3}{14}$ (c) $\frac{2}{7}, \frac{5}{7}, \frac{6}{7}$ (d) $\frac{5}{13}, \frac{9}{13}, \frac{10}{13}$

(e) $\frac{6}{17}, \frac{7}{17}, \frac{8}{17}$ (f) $\frac{19}{20}, \frac{19}{21}, \frac{19}{22}$

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

(c) $\frac{3}{9} < \frac{3}{8} < \frac{3}{5} < \frac{3}{3}$ (d) $\frac{1}{5} < \frac{3}{5} < \frac{4}{5} < \frac{7}{5}$

4. (a) $\frac{14}{17} > \frac{11}{17} > \frac{9}{17} > \frac{7}{17}$ (b) $\frac{5}{6} > \frac{5}{7} > \frac{5}{8} > \frac{5}{9}$

(c) $\frac{4}{5} > \frac{3}{5} > \frac{2}{5} > \frac{1}{5}$ (d) $\frac{7}{8} > \frac{7}{9} > \frac{7}{10} > \frac{7}{11}$

MCQs

1. (c) **2.** (b) **3.** (a) **4.** (a)

Test Exercise

1. (a) $\frac{1}{5}$ (b) $\frac{4}{8}$

2. (a) $\frac{5}{6}$ (b) $\frac{3}{9}$ (c) $\frac{2}{8}$

3. (a) $\frac{5}{7}$ five sevenths (b) $\frac{4}{9}$ four ninths

(c) $\frac{2}{5}$ two fifths

4. (a) $\frac{1}{4}$ of 32 = 8 (b) $\frac{1}{2}$ of 2 = 1 (c) $\frac{1}{3}$ of 27 = 9 (d) $\frac{1}{5}$ of 35 = 7

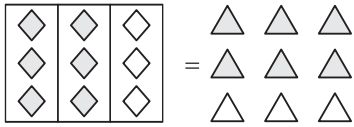
5. Try yourself
Part (a) (b) (c)
(d) flowers in green = $\frac{1}{2}$ of 12 = 6 (e) flowers in yellow = $\frac{1}{3}$ of 12 = 4

6. (a) numerator of $\frac{6}{11}$ = 6 (b) denominator of $\frac{7}{8}$ = 8

7. (a)

$\frac{4}{10} = \frac{2}{5}$

(b)



$\frac{2}{3} = \frac{6}{9}$

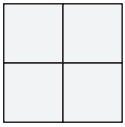
Mental Maths
$\frac{2}{3}, \frac{1}{3}, \frac{5}{3}, \frac{7}{3}$ are fractions with denomiator 3

9 Geometrical Concepts

Exercise- 9.1

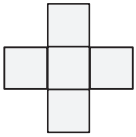
1. (a) Shape of postcard is **rectangular**
(b) Shape of coin is **circular**

2. (a)



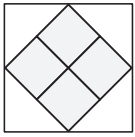
4 squares

(b)



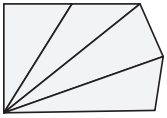
5 squares

(c)



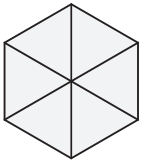
6 squares

3. (a)



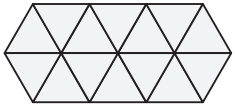
5 triangles

(b)



6 triangles

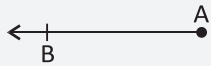
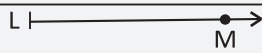
(c)



12 triangles

Exercise- 9.2

1.

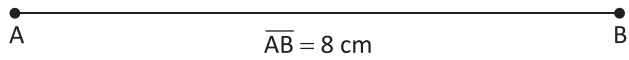
.X	Point X
	Line MN
	Line segment ST
	Ray AB
	Line DE
	Ray LM

2. (a) A line has **no** end points.
(b) A line segment has a **definite** length.
(c) A point shows a definite **location**.
(d) A line segment has **two** end points.
(e) Two line segments meet in a **point**.
(f) A dot (.) represent a **point**.

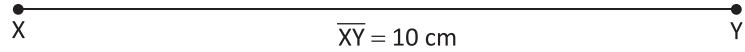
Exercise- 9.3

1. (a) $\overline{MN} = \mathbf{5.2}$ cm (b) $\overline{PQ} = \mathbf{5.5}$ cm
(c) $\overline{XY} = \mathbf{5.3}$ cm (d) $\overline{AB} = \mathbf{5.2}$ cm

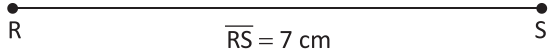
2. (a)



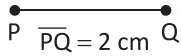
(b)



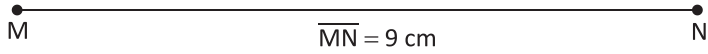
(c)



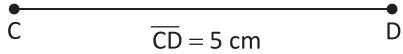
(d)



(e)

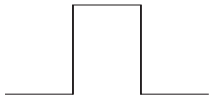


(f)



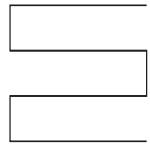
Exercise- 9.4

1. (a)



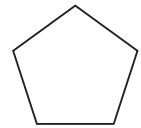
Open figure

(b)



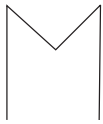
Open figure

(c)



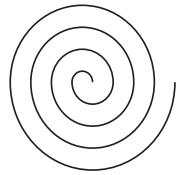
Closed figure

(d)



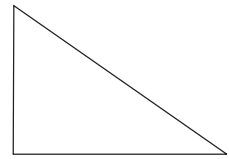
Open figure

(e)



Open figure

(f)



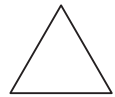
Closed figure

Exercise- 9.5

1. (a)

Rectangle

(b)



Triangle

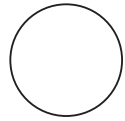
(c)

Rectangle

(d)

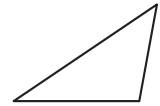
Square

(e)



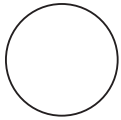
Circle

(f)



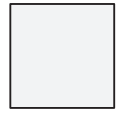
Triangle

(g)



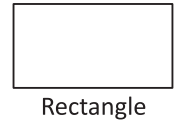
Circle

(h)



Square

(i)



Rectangle

2. (a) Face of a rupee coin is Square/Circle/Rectangle/Triangle. ✓

(b) The surface of the book is Square/Circle/Rectangle/Triangle. ✓

(c) The surface of the black board is Square/Circle/Rectangle/Triangle. ✗

✓

(d) The face of the dice is Square/Circle/Rectangle/Triangle.

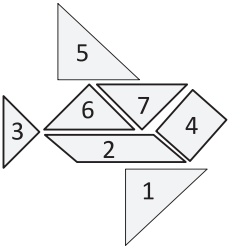
✓

(e) Set square is Square/Circle/Rectangle/Triangle.

3. (a) The rim of the bicycle **circle**.
(b) Surface of slate **rectangle**.
(c) The face of full moon **circular**.
(d) The face of the bangle **circular**.
(e) The face of ice cube **square**. (f) The face of sugar cube **square**.

4. (a) A triangle has **three** sides and **three** corners
(b) A rectangle has **4** sides and **4** corners.
(c) A circle has **no** sides and **no** corner.
(d) All the sides of square are **equal**.
(e) The opposite sides of a rectangle are **equal**.

Exercise- 9.6



Exercise- 9.7

1. (a) Cylinder (b) Cone (c) Cuboid (d) Sphere
(e) Cube

2. (a) Cube have six faces, all of equal size and eight vertices
(b) Cylinder have no vertices but 2 edges, elongated shape with three faces.

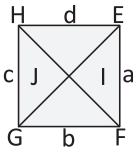
3. (a) A cylinder has **two** plane faces and **two** edges.
(b) A **cylinder** has two edges and no vertex.
(c) A **cone** has one plane, one curved surfaces, one vertex, one edge.
(d) A sphere has no **plane** surface.
(e) A **sphere** has no vertex and no edge.
(f) All the faces of a **cube** are identical.

MCQs

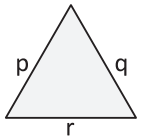
1. (a) **2.** (a) **3.** (b) **4.** (c)
5. (c)

Test Exercise

1. Tangram is an old **Chinese** puzzle.
2. (a) Pairs of adjacent sides are (HE and EF)
   EF and GF
   GF and HG
   HG and HE
   (b) Pairs of opposite vertices are E and G; H and F
   (c) Pairs of opposite sides are HG and EF; HE and GF
   (d) Diagonals are GE and HF; diagonals of square are **equal**.



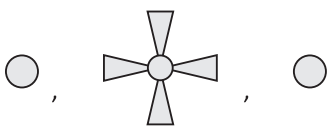
3. (a) Adjacent sides of a rectangle meet at a point called **vertex** of the rectangle
   (b) Pair of adjacent sides of triangle given here are
   p and q
   q and r
   r and p



10 Patterns

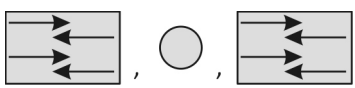
Exercise- 10.1

1. (a)

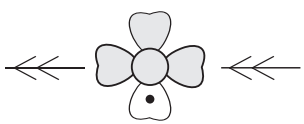


(b)

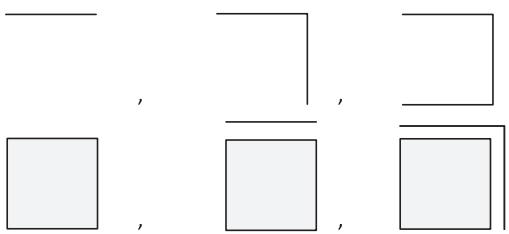
(c)



(d)

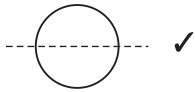


2. (a)

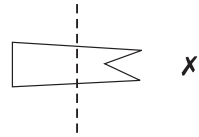


Exercise- 10.2

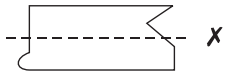
1. (a)



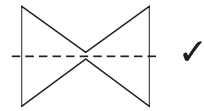
(b)



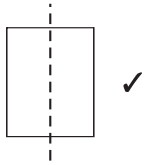
(c)



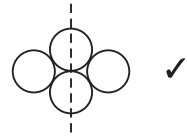
(d)



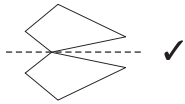
(e)



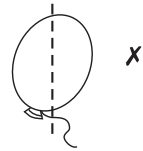
(f)



(g)

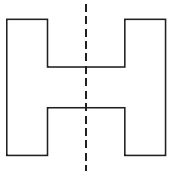


(h)

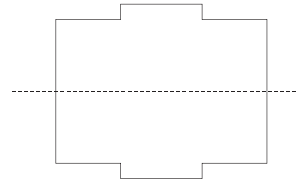


Exercise- 10.3

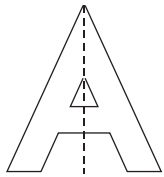
1. (a)



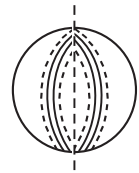
(b)



(c)

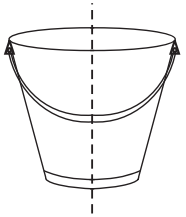


(d)

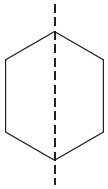


(e)

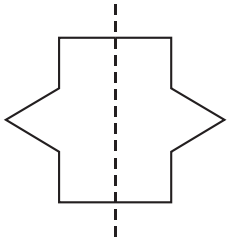
(f)



(g)

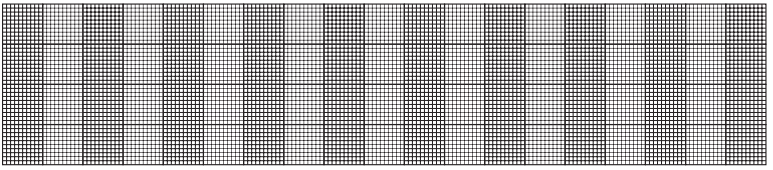


(h)

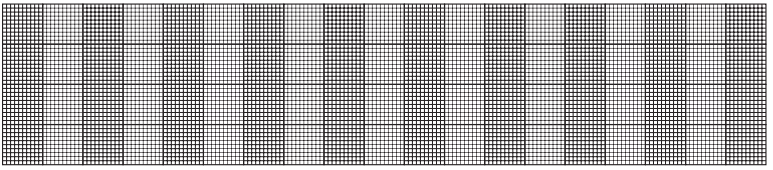


Exercise- 10.4

(a)



(b)



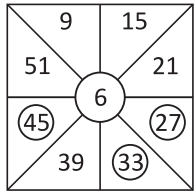
Exercise- 10.5

1. (a) 10, 30, 50, 70, **90**, **110**, **130**
(b) 5, 15, 25, 35, **45**, **55**, **65**
(e) 20, 19, 18, 17, **16**, **15**, **14**
(d) 8, 16, 24, 32, **40**, **48**, **56**
(e) 12, 17, 22, 27, **32**, **37**, **42**

2. (a)

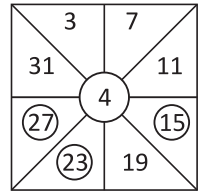
1	2	3	4	5	6	7	8
10	20	30	40	50	60	70	80

(b) (i)



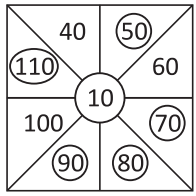
adding 6 to preceeding number

(ii)



adding 4 to preceeding number

(iii)



adding 10 to preceeding number

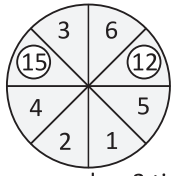
3. (a) 10 21 11 23 12 25 13 28 15 31 16 33 17
Middle number sum of corner number

(b) 5 1 6 2 8 3 11 4 15 5 20 6 26
Middle number sum of corner number

(c) 8 12 16 20 24 28 32 36 40 44 48 52 56
Adding 4 to previous number

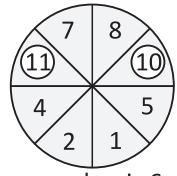
(d) 7 5 12 10 22 15 37 20 57 25 82 30 112
Middle order is difference of corner number

4. (a)



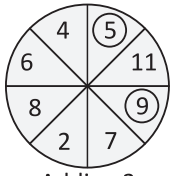
Above number 3 times lower number

(b)



Above number is 6 more than lower number

(c)



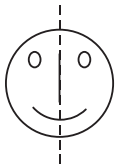
Adding 3

MCQs

1. (b) **2.** (b) **3.** (a) **4.** (a)
5. (b) **6.** (c) **7.** (a)

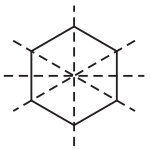
Test Exercise

1. (a)

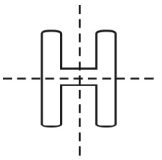


(b)

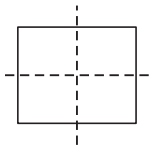
(c)



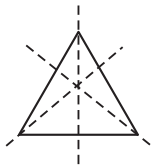
(d)



(e)

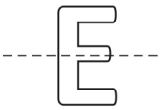


(f)

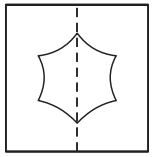


(g)

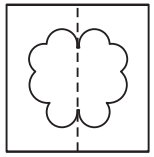
(h)



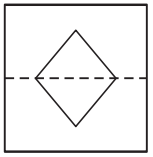
2. (a)



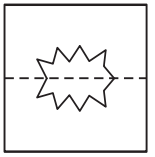
(b)



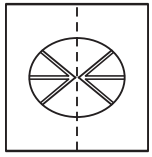
(c)



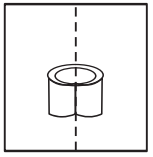
(d)



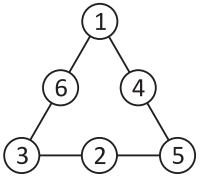
(e)



(f)

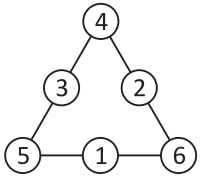


3. (a)



Sum of each side is 10

(b)



Sum of each side is 12

4. (a) 2134, 2135, 2136, **2137**, **2138**, **2139**, **2140**, **2141**, **2142**, **2143**
(b) 3066, 3076, 3086, **3096**, **3106**, **3116**, **3126**, **3136**, **3146**, **3156**
(c) 4321, 4421, 4521, **4621**, **4721**, **4821**, **4921**, **5021**, **5121**, **5221**
(d) 2231, 3231, 4231, **5231**, **6231**, **7231**, **8231**, **9231**, **10231**, **11231**
(e) 2135, 3135, 4135, **5135**, **6135**, **7135**, **8135**, **9135**, **10135**, **11135**
(f) 4506, 5506, **6506**, **7506**, **8506**, **9506**, **10506**, **11506**, **12506**

(g) 3176, 4176, **5176**, **6176**, **7176**, **8176**, **9176**, **10176**, **11176**
(h) **2100**, 2000, **1900**, **1800**, **1700**, 1600, 1500, **1400**, **1300**
(i) **1100**, 2100, 3100, **4100**, **5100**, **6100**, **7100**, **8100**, 9100

5. (a) 4000, 5000, 6000, **7000**, **8000**, **9000**
(b) 3150, 3250, 3350, **3450**, **3550**, **3650**
(c) 3150, 3150, 3150, **3150**, **3150**, **3150**
(d) 6666, 5555, **4444**, **3333**, 2222, **1111**
(e) 2120, 2140, 2160, **2180**, **2200**, **2220**
(f) 2120, 2120, **2120**, **2120**, **2120**, **2120**
(g) **4275**, 5275, 6275, **7275**, **8275**, 9275
(h) **3400**, 3800, 4200, **4600**, 5000, **5400**
(i) **4021**, 4221, 4421, **4621**, **4821**, 5021
(j) 1900, 1750, **1600**, 1450, **1300**, **1150**

❍❍❍

11 Measurement

Exercise- 11.1

1. (a) The pencil box is as long as **7** crayons.
(b) The ruler is as long as **12** sharpeners.
(c) The crayon is as long as **4** erasers.

2. Thing

(a)	Height of a computer screen	Centimetres
(b)	Depth of a well	Metres
(c)	Height of your father	Metres/Centimetres
(d)	Length of pagdi worn by Sikhs	Metres
(e)	Distance from school to home	Kilometres
(f)	Distance between Shimla and Delhi	Kilometres

3. (a) (ii)
(b) (iii)
(c) (i)

Exercise- 11.2

1. (a) $6 \text{ m} = 6 \times 100 \text{ cm} = 600 \text{ cm}$
(b) $20 \text{ m } 86 \text{ cm} = 20 \text{ m} + 86 \text{ cm} = 20 \times 100 \text{ cm} + 86 \text{ cm}$
$= 2000 \text{ cm} + 86 \text{ cm} = 2086 \text{ cm}$

(c) 15 m 16 cm = 15 m + 16 cm = 15 × 100 cm + 16 cm
= 1500 cm + 16 cm = 1516 cm

(d) 80 m 80 cm = 80 m + 80 cm = 80 × 100 cm + 80 cm
= 8000 cm + 80 cm = 8080 cm

(e) 16 m 63 cm = 16 m + 63 cm = 16 × 100 cm + 63 cm
= 1600 cm + 63 cm = 1663 cm

(f) 38 m 40 cm = 38 m + 40 cm = 38 × 100 cm + 40 cm
= 3800 cm + 40 cm = 3840 cm

(g) 23 m 36 cm = 23 m + 36 cm = 23 × 100 cm + 36 cm
= 2300 cm + 36 cm = 2336 cm

(h) 21 m 7 cm = 21 m + 7 cm = 21 × 100 cm + 7 cm
= 2100 cm + 7 cm = 2107 cm

(i) 46 m 4 cm = 46 m + 4 cm = 46 × 100 cm + 4 cm
= 4600 cm + 4 cm = 4604 cm

2. (a) 8 km = 8 × 1000 m = 8000 m

(b) 5 km 180 m = 5 km + 180 m = 5 × 1000 m + 180 m
= 5000 m + 180 m = 5180 m

(c) 700 cm = 700 ÷ 100 m = 7.00 m

(d) 500 cm = 500 ÷ 100 m = 5.0 m

(e) 2 km 86 m = 2 km + 86 m = 2 × 1000 m + 86 m
= 2000 m + 86 m = 2086 m

(f) 4 km 670 m = 4 km + 670 m = 4 × 1000 m + 670 m
= 4000 m + 670 m = 4670 m

(g) 3 km 500 m = 3 km + 500 m = 3 × 1000 m + 500 m
= 3000 m + 500 m = 3500 m

(h) 8 km 250 m = 8 km + 250 m = 8 × 1000 m + 250 m
= 8000 + 250 m = 8250 m

(i) 4 km 50 m = 4 km + 50 m = 4 × 1000 m + 50 m
= 4000 m + 50 m = 4050 m

3. (a) 1860 cm = 1800 cm + 60 cm = (1800 ÷ 100) m + 60 cm
= 18 m + 60 cm = 18 m 60 cm

(b) 4290 cm = 4200 cm + 90 cm = (4200 ÷ 100) m + 90 cm
= 42 m + 90 cm = 42 m 90 cm

(c) 6430 cm = 6400 cm + 30 cm = (6400 ÷ 100) m + 30 cm
= 64 m + 30 cm = 64 m 30 cm

(d) 7065 cm = 7000 cm + 65 cm = (7000 ÷ 100) m + 65 cm
= 70 m + 65 cm = 70 m 65 cm

(e) 9835 cm = 9800 cm + 35 cm = (9800 ÷ 100) m + 35 cm
= 98 m + 35 cm = 98 m 35 cm

(f) 1923 cm = 1900 cm + 23 cm = (1900 ÷ 100) m + 23 cm
= 19 m + 23 cm = 19 m 23 cm

(g) 1025 cm = 1000 cm + 25 cm = (1000 ÷ 100) m + 25 cm
= 10 m + 25 cm = 10 m 25 cm

(h) 3508 cm = 3500 cm + 8 cm = (3500 ÷ 100) m + 8 cm
= 35 m + 8 cm = 35 m 8 cm

(i) 4200 cm = (4200 ÷ 100) m = 42 m

4. (a) 5000 m = (5000 ÷ 1000) km = 5 km
(b) 3000 m = (3000 ÷ 1000) km = 3 km
(c) 9000 m = (9000 ÷ 1000) km = 9 km
(d) 8000 m = (8000 ÷ 1000) km = 8 km
(e) 7000 m = (7000 ÷ 1000) km = 7 km
(f) 1000 m = (1000 ÷ 1000) km = 1 km
(g) 2000 m = (2000 ÷ 1000) km = 2 km
(h) 4000 m = (4000 ÷ 1000) km = 4 km
(i) 6000 m = (6000 ÷ 1000) km = 6 km

5. (a) 9859 m = 9000 m + 859 m = (9000 ÷ 1000) km + 859 m
= 9 km + 859 m = 9 km 859 m

(b) 7100 m = 7000 m + 100 m = (7000 ÷ 1000) km + 100 m
= 7 km + 100 m = 7 km 100 m

(c) 6003 m = 6000 m + 3 m = (6000 ÷ 1000) km + 3 m
= 6 km + 3 m = 6 km 3 m

(d) 1030 m = 1000 m + 30 m = (1000 ÷ 1000) km + 30 m
= 1 km + 30 m = 1 km 30 m

(e) 6985 m = 6000 m + 985 m = (6000 ÷ 1000) km + 985 m
= 6 km + 985 m = 6 km 985 m

(f) 2120 m = 2100 m + 120 m = (2000 ÷ 1000) km + 120 m
= 2 km + 120 m = 2 km 120 m

(g) 6835 m = 6000 m + 835 m = (6000 ÷ 1000) km + 835 m
= 6 km + 835 m = 6 km 835 m

(h) 4560 m = 4000 m + 560 m = (4000 ÷ 1000) km + 560 m
= 4 km + 560 m = 4 km 560 m

(i) 7500 m = 7000 m + 500 m = (7000 ÷ 1000) km + 500 m
= 7 km + 500 m = 7 km 500 m

Exercise- 11.3

1. (a)

	m	**cm**
	22	17
+	47	52
	69	69

(b)

	m	**cm**
	55	32
+	68	60
	123	92

(c)

	m	**cm**
	33	48
+	44	73
	78	21

(d)

	m	**cm**
	179	16
+	69	59
	248	75

(e)

	km	**m**
	56	317
+	83	470
	139	787

(f)

	km	**m**
	64	250
+	26	570
	90	820

(g)

km	m
28	239
+ 59	741
87	980

(h)

km	m
78	750
+ 24	250
103	000

2. (a)

m	cm
38	38
– 16	20
22	18

(b)

m	cm
84	72
– 52	51
32	21

(c)

m	cm
56	48
– 27	69
28	79

(d)

m	cm
394	68
– 245	76
148	92

(e)

km	m
78	350
– 59	275
19	075

(f)

km	m
93	300
– 62	100
31	200

(g)

km	m
72	256
– 66	067
6	189

(h)

km	m
200	500
– 100	800
99	700

3. (a)

m	cm
66	36
+ 23	88
90	24

(b)

km	m
47	568
+ 55	768
103	336

(c)

m	cm
36	28
258	83
+ 140	36
435	47

(d)

m	cm
286	48
+ 456	18
742	66

4. (a)

m	cm
68	45
– 29	60
38	85

(b)

m	cm
375	58
– 289	29
86	29

(c)

m	cm
365	60
– 185	86
179	74

(d)

km	m
94	31
– 79	13
15	18

Exercise- 11.4

1. (a) $8\text{ kg} = 8 \times 1000\text{ g} = 8000\text{ g}$

(b) $3\text{ kg } 780\text{ g} = 3\text{ kg} + 780\text{ g} = 3 \times 1000\text{ g} + 780\text{ g} = 3000\text{ g} + 780\text{ g} = 3780\text{ g}$

(c) $4\text{ kg } 435\text{ g} = 4\text{ kg} + 435\text{ g} = 4 \times 1000\text{ g} + 435\text{ g} = 4000\text{ g} + 435\text{ g} = 4435\text{ g}$

(d) $7\text{ kg } 25\text{ g} = 7\text{ kg} + 25\text{ g} = 7 \times 1000\text{ g} + 25\text{ g} = 7000\text{ g} + 25\text{ g} = 7025\text{ g}$

(e) $9\text{ kg } 450\text{ g} = 9\text{ kg} + 450\text{ g} = 9 \times 1000\text{ g} + 450\text{ g} = 9000\text{ g} + 450\text{ g} = 9450\text{ g}$

(f) $5\text{ kg } 454\text{ g} = 5\text{ kg} + 454\text{ g} = 5 \times 1000\text{ g} + 454\text{ g} = 5000\text{ g} + 454\text{ g} = 5454\text{ g}$

(g) $4\text{ kg } 678\text{ g} = 4\text{ kg} + 678\text{ g} = 4 \times 1000\text{ g} + 678\text{ g} = 4000\text{ g} + 678\text{ g} = 4678\text{ g}$

(h) $6\text{ kg } 340\text{ g} = 6\text{ kg} + 340\text{ g} = 6 \times 1000\text{ g} + 340\text{ g} = 6000\text{ g} + 340\text{ g} = 6340\text{ g}$

(i) $3\text{ kg } 540\text{ g} = 3\text{ kg} + 540\text{ g} = 3 \times 1000\text{ g} + 540\text{ g} = 3000\text{ g} + 540\text{ g} = 3540\text{ g}$

(j) $5\text{ kg } 650\text{ g} = 5\text{ kg} + 650\text{ g} = 5 \times 1000\text{ g} + 650\text{ g} = 5000\text{ g} + 650\text{ g} = 5650\text{ g}$

(k) $4\text{ kg} = 4 \times 1000\text{ g} = 4000\text{ g}$

(l) $2\text{ kg } 158\text{ g} = 2\text{ kg} + 158\text{ g} = 2 \times 1000\text{ g} + 158\text{ g} = 2000\text{ g} + 158\text{ g} = 2158\text{ g}$

2. (a) $5000\text{ g} = (5000 \div 1000)\text{ kg} = 5\text{ kg}$

(b) $1008\text{ g} = 1000\text{ g} + 8\text{ g} = (1000 \div 1000)\text{ kg} + 8\text{ g} = 1\text{ kg} + 8\text{ g} = 1\text{ kg } 8\text{ g}$

(c) $7870\text{ g} = 7000\text{ g} + 870\text{ g} = (7000 \div 1000)\text{ kg} + 870\text{ g} = 7\text{ kg} + 870\text{ g} = 7\text{ kg } 870\text{ g}$

(d) $1645\text{ g} = 1000\text{ g} + 645\text{ g} = (1000 \div 1000)\text{ kg} + 645\text{ g} = 1\text{ kg} + 645\text{ g} = 1\text{ kg } 645\text{ g}$

(e) $2070\text{ g} = 2000\text{ g} + 70\text{ g} = (2000 \div 1000)\text{ kg} + 70\text{ g} = 2\text{ kg} + 70\text{ g} = 2\text{ kg } 70\text{ g}$

(f) $4088\text{ g} = 4000\text{ g} + 88\text{ g} = (4000 \div 1000)\text{ kg} + 88\text{ g} = 4\text{ kg} + 88\text{ g} = 4\text{ kg } 88\text{ g}$

(g) $6789\text{ g} = 6000\text{ g} + 789\text{ g} = (6000 \div 1000)\text{ kg} + 789\text{ g}$
$= 6\text{ kg} + 789\text{ g} = 6\text{ kg } 789\text{ g}$

(h) $8500\text{ g} = 8000\text{ g} + 500\text{ g} = (8000 \div 1000)\text{ kg} + 500\text{ g}$
$= 8\text{ kg} + 500\text{ g} = 8\text{ kg } 500\text{ g}$

(i) $3123\text{ g} = 3000\text{ g} + 123\text{ g} = (3000 \div 1000)\text{ kg} + 123\text{ g}$
$= 3\text{ kg} + 123\text{ g} = 3\text{ kg } 123\text{ g}$

(j) $7200\text{ g} = 7000\text{ g} + 200\text{ g} = (7000 \div 1000)\text{ kg} + 200\text{ g}$
$= 7\text{ kg} + 200\text{ g} = 7\text{ kg } 200\text{ g}$

(k) $6570\text{ g} = 6000\text{ g} + 570\text{ g} = (6000 \div 1000)\text{ kg} + 570\text{ g}$
$= 6\text{ kg} + 570\text{ g} = 6\text{ kg } 570\text{ g}$

(l) $1525\text{ g} = 1000\text{ g} + 525\text{ g} = (1000 \div 1000)\text{ kg} + 525\text{ g}$
$= 1\text{ kg} + 525\text{ g} = 1\text{ kg } 525\text{ g}$

Exercise- 11.5

1. (a)

kg	g
41	100
+ 15	810
56	910

(b)

kg	g
14	810
+ 50	170
64	980

(c)

kg	g
33	110
+ 12	210
45	320

(d)

kg	g
35	220
+ 53	120
88	340

(e)

kg	g
12	360
+ 7	205
19	565

(f)

kg	g
66	154
+ 23	102
89	256

(g)

kg	g
43	300
+ 25	210
68	510

(h)

kg	g
33	100
+ 23	150
56	250

(i)

kg	g
71	530
+ 15	162
86	692

2. (a)

kg	g
21	259
– 10	134
11	125

(b)

kg	g
69	490
– 34	170
35	320

(c)

kg	g
76	640
– 25	320
51	320

(d)

kg	g
56	870
– 31	310
25	560

(e)

kg	g
43	750
– 20	440
23	310

(f)

kg	g
35	470
– 22	350
13	120

(g)

kg	g
77	960
– 44	630
33	330

(h)

kg	g
85	770
– 51	320
34	450

(i)

kg	g
39	689
– 25	536
14	153

3. (a)

kg	g
7	540
+ 1	350
8	890

(b)

kg	g
6	30
+ 5	670
11	700

(c)

kg	g
3	385
+ 7	365
10	750

(d)

kg	g
22	567
+ 15	550
38	117

4. (a)

kg	g
6	567
– 3	340
3	227

(b)

kg	g
9	680
– 4	560
5	120

(c)

kg	g
33	805
– 23	876
9	929

(d)

kg	g
128	330
– 125	75
3	255

Exercise- 11.6

1. (a) 1 litre = 1000 ml

500 ml 200 ml 200 ml 200 ml 100 ml

(b) 1 litre = 1000 ml

500 ml 200 ml 200 ml 200 ml 200 ml 200 ml

(c) 1 litre = 1000 ml

100 ml 100 ml 100 ml 100 ml 100 ml

100 ml 100 ml 100 ml 100 ml 100 ml

100 ml 500 ml 200 ml 200 ml 200 ml 200 ml

(d) 1 litre = 1000 ml

250 ml 250 ml 250 ml 250 ml 500 ml 200 ml

(e) 1 litre = 1000 ml

500 ml 200 ml 200 ml 200 ml 200 ml

100 ml 100 ml 100 ml 100 ml

2. (a) 1 litre needs 200 ml **5** cups to fill it
(b) 2 litres needs 200 ml **10** cups to fill it
(c) 1 litre 200 ml needs 6 cups of (200 ml) to fill it

3. (a) Water in a bucket (litres)
(b) A small medicine bottle (millilitres)
(c) Milk in a glass (millilitres)
(d) The petrol tank of a car (litres)
(e) A bowl of soup (millilitres)
(f) Water in swimming pool (litres)

4. (a) $9\ l = 9 \times 1000\ ml = 9000\ ml$

(b) $3\ l\ 440\ ml = 3\ l + 440\ ml = 3 \times 1000\ ml + 440\ ml$
$= 3000\ ml + 440\ ml = 3440\ ml$

(c) $7\ l\ 4\ ml = 7\ l + 4\ ml = 7 \times 1000\ ml + 4\ ml = 7000\ ml + 4\ ml = 7004\ ml$

(d) $8\ l\ 675\ ml = 8\ l + 675\ ml = 8 \times 1000\ l + 675\ ml = 8000\ l + 675\ ml = 8675\ ml$

(e) $5\ l\ 720\ ml = 5\ l + 720\ ml = 5 \times 1000\ ml + 720\ ml$
$= 5000\ ml + 720\ ml = 5720\ ml$

(f) $6\ l\ 880\ ml = 6\ l + 880\ ml = 6 \times 1000\ ml + 880\ ml$
$= 6000\ ml + 880\ ml = 6880\ ml$

(g) $4\ l\ 725\ ml = 4\ l + 725\ ml = 4 \times 1000\ ml + 725\ ml$
$= 4000\ ml + 725\ ml = 4725\ ml$

(h) $9\ l\ 460\ ml = 9\ l + 460\ ml = 9 \times 1000\ ml + 460\ ml$
$= 9000\ ml + 460\ ml = 9460\ ml$

(i) $3\ l\ 50\ ml = 3\ l + 50\ ml = 3 \times 1000\ ml + 50\ ml = 3000\ ml + 50\ ml = 3050\ ml$

5. (a) $14000\ ml = (14000 \div 1000)\ l = 14\ l$

(b) $6000\ ml = (6000 \div 1000)\ l = 6\ l$

(c) $9876\ ml = 9000\ ml + 876\ ml = (9000 \div 1000)\ l + 876\ ml$
$= 9\ l + 876\ ml = 9\ l\ 876\ ml$

(d) $7765\ ml = 7000\ ml + 765\ ml = (7000 \div 1000)\ l + 765\ ml$
$= 7\ l + 765\ ml = 7\ l\ 765\ ml$

(e) $2343\ ml = 2000\ ml + 343\ ml = (2000 \div 1000)\ l + 343\ ml$
$= 2\ l + 343\ ml = 2\ l\ 343\ ml$

(f) $8004\ ml = 8000\ ml + 4\ ml = (8000 \div 1000)\ l + 4\ ml$
$= 8\ l + 4\ ml = 8\ l\ 4\ ml$

(g) $6575\ ml = 6000\ ml + 575\ ml = (6000 \div 1000)\ l + 575\ ml$
$= 6\ l + 575\ ml = 6\ l\ 575\ ml$

(h) $7500\ ml = 7000\ ml + 500\ ml = (7000 \div 1000)\ l + 500\ ml$
$= 7\ l + 500\ ml = 7\ l\ 500\ ml$

(i) $18000\ ml = (18000 \div 1000)\ l = 18\ l$

Exercise- 11.7

1. (a)

l	ml
15	720
+ 21	250
36	970

(b)

l	ml
16	270
+ 23	220
39	490

(c)

l	ml
43	370
+ 16	120
59	490

(d)

l	ml
14	750
+ 15	140
29	890

(e)

l	ml
17	620
+ 71	160
88	780

(f)

l	ml
10	120
+ 25	466
35	586

(g)

l	ml
26	140
+ 32	226
58	366

(h)

l	ml
13	306
+ 41	271
54	577

(i)

l	ml
45	433
+ 24	106
69	539

2. (a)

l	ml
63	780
– 42	240
21	540

(b)

l	ml
19	650
– 12	640
7	010

(c)

l	ml
64	850
– 13	320
51	530

(d)

l	ml
75	270
– 40	210
35	060

(e)

l	ml
37	850
– 25	320
12	530

(f)

l	ml
39	870
– 15	240
24	630

(g)

l	ml
59	576
– 17	123
42	453

(h)

l	ml
92	600
– 10	200
82	400

(i)

l	ml
75	574
– 54	163
21	411

3. (a)

l	ml
25	253
+ 34	500
59	753

(b)

l	ml
48	865
19	535
+ 22	765
91	165

(c)

l	ml
13	500
+ 16	750
30	250

(d)

l	ml
45	115
27	75
+ 17	875
90	065

4. (a)

l	ml
34	650
– 15	200
19	450

(b)

l	ml
82	130
– 75	880
6	250

(c)

l	ml
54	780
– 10	380
44	400

(d)

l	ml
84	870
– 55	934
28	936

Exercise- 11.8

1.

	m	cm
Blue ribbon purchased =	25	35
Red ribbon purchased =	40	64
Green ribbon purchased =	+ 16	39
Total ribbon purchased =	82	38

2.

	m	cm
Total rope =	45	65
Rope cut off =	– 19	36
Rope left =	26	29

3.

	km	m
Vihan jogs =	7	050
Reena jogs =	– 5	650
Vihan jogs more by =	1	400

4.

	l	ml
Oil in Ist container =	16	350
Oil in IInd container =	+ 16	875
Total quantity of oil =	32	225

5.

	kg	g
Weight of potatoes =	5	500
Weight of tomatoes =	+ 1	225
Total weight of vegetables =	6	725

6.

	m	cm
Total thread =	500	00
Thread used =	– 242	5
Thread left =	257	95

7.

	kg	g
Apples sold to Ist customer =	5	625
Apples sold to IInd customer =	+ 7	205
Total apples sold =	12	830
Fruit seller have apples =	50	000
Fruit seller sold apples =	– 12	830
Apples left =	37	170

		kg	g
8.	Mrs. Kashup bought potatoes =	4	450
	Mrs. Kashup bought onions =	6	600
	Mrs. Kashup bought tomatoes =	+ 5	350
	Vegetables bought =	16	400

		kg	g
9.	Rahul weighs =	89	010
	Prateek weighs =	– 76	450
	Rahul weight more than Prateek by =	12	560

		l	ml
10.	Paint bought =	65	560
	Paint used =	– 47	450
	Paint left =	18	110

		l	ml
11.	Petrol filled =	25	300
	Petrol used =	– 14	850
	Petrol left =	10	450

MCQs

1. (a) **2.** (b) **3.** (c) **4.** (b)
5. (b)

Mental Maths

1. (a) 450 cm ◯ 2 m
450 cm < 2000 m

(b) 800 m ◯ 1 km
800 m < 1000 m

(c) 200 m + 200 m ◯ 1 km
400 m < 1000 m

(d) 500 m + 500 m ◯ 1 km
1000 m = 1000 m

(e) 1 kg ◯ 800 g + 100 g
1000 g > 900 g

(f) 1 kg ◯ 700 g + 300 g
1000 g = 1000 g

(g) 900 g + 50 g ◯ 1 kg
950 g < 1000 g

(h) 1 *l* ◯ 300 ml + 200 ml
1000 ml > 500 ml

(i) 400 ml + 600 ml ◯ 1 *l*
1000 ml = 1000 ml

(j) 1 *l* ◯ 500 ml + 400 ml
1000 ml > 900 ml

2. (a) Total weight of 5 balls = 5 × 100 g = 500 g
(b) 1 m ribbon or 100 cm robbon
Length of each ribbon = 100 ÷ 2
= 50 cm

Test Exercise

1. (a) $6\ l = 6 \times 1000$ ml $=$ **6000** ml
(b) 21 m $= 21 \times 100$ cm $=$ **2100** cm
(c) 3 kg $= 3 \times 1000$ g $=$ **3000** g
(d) 26 m $= 26 \times 100$ cm $=$ **2600** cm
(e) $32\ l = 32 \times 1000$ ml $=$ **32000** ml
(f) 45 kg $= 45 \times 1000$ g $=$ **45000** g
(g) 7 m $= 7 \times 10$ dm $=$ **70** dm
(h) 12 dm $= 12 \times 10$ cm $=$ **120** cm
(i) 25 dm 2 cm $= 25 \times 10$ cm $+ 2$ cm $= 250 + 2$ cm $=$ **252** cm
(j) 16 m 9 dm $= 16$ m $+ 9$ dm $= 16 \times 10$ dm $+ 9$ dm
$= 160$ dm $+ 9$ dm $=$ **169** dm
(k) 35 m 8 cm $= 35 \times 100$ cm $+ 8$ cm $= 3500$ cm $+ 8$ cm $=$ **3508** cm
(l) 19 kg 108 g $= 19$ kg $+ 108$ g $= 19 \times 1000$ g $+ 108$ g
$= 19000$ g $+ 108$ g $=$ **19108** g
(m) 14 l 540 ml $= 14$ l $+ 540$ ml $= 14 \times 1000$ ml $+ 540$ ml
$= 14000$ ml $+ 540$ ml $=$ **14540** ml
(n) 24 m 5 cm $= 24$ m $+ 5$ cm $= 24 \times 100$ cm $+ 5$ cm
$= 2400$ cm $+ 5$ cm $= 2405$ cm

2. (a) 9 m ◯ 99 cm
900 cm > 99 cm
(b) 4 kg 810 g
4000 g + 810 g = 4810 g
∴ 4 kg 810 > 4800 g
(c) 2 m 60 cm
2 m + 60 cm = 200 cm + 60 cm
= 260 cm
∴ 2 m 60 cm = 260 cm
(d) 2 *l* ◯ 2782 ml
2000 ml < 2782 ml
(e) 9 l ◯ 9280 ml
9000 ml < 9280 ml
(f) 50 kg ◯ 500 g
50000 g > 500 g

3. (a)

m	cm
18	4
+ 51	2
69	6

(b)

kg	g
62	430
+ 35	120
97	550

(c)

l	ml
44	403
+ 23	162
67	565

(d)

dm	cm
33	14
+ 25	12
58	26

4. (a)

m	dm
48	9
– 34	6
14	3

(b)

l	ml
89	345
– 56	102
33	243

(c)

kg	g
36	790
– 15	520
21	270

(d)

m	cm
27	15
– 12	9
15	06

5. (a) To convert litres into millilitres, we multiply number of litres by **1000**.
(b) There are **10** decimetres in 1 metre.

❍❍❍

Exercise- 12.1

1. (b) ₹ 205.75, Two hundred and five rupees seventy five paise
(c) ₹ 78.00, Seventy eight rupees
(d) ₹ 575.00, Five hundred and seventy five rupees and fifty paise

2. (a) ₹ 0.75 (b) ₹ 327.25 (c) ₹ 4.75 (d) ₹ 327.05
(e) ₹ 25.50 (f) ₹ 0.65 (g) ₹ 6.25 (h) ₹ 825.00

3. (a) ₹ 0.08 = Eight paise
(b) ₹ 0.75 = Seventy five paise
(c) ₹ 3.17 = Rupees three and seventeen paise
(d) ₹ 22.40 = Rupees twenty two and forty paise
(e) ₹ 216.27 = Rupees two hundred sixteen and twenty seven paise
(f) ₹ 823.52 = Rupees eight hundred twenty three and fifty two paise
(g) ₹ 1045.75 = Rupees one thousand forty five and seventy five paise
(h) ₹ 9906.80 = Rupees nine thousand nine hundred six and eighty paise

4. (a) ₹ 65.30 (b) ₹ 80.25 (c) ₹ 105.75 (d) ₹ 2.25
(e) ₹ 77.75

5.

Denomination Amount	₹ 2000	₹ 500	₹ 100	₹ 50	₹ 20	₹ 10	₹ 5	₹ 2	₹ 1	p 50	p 25
₹ 437.25			4		1	1	1	1			1
₹ 299.00			2	1	2		1	2			
₹ 357.25			3	1			1	1			1
₹ 688.00		1	1	1	2	1	1	2	1		
₹ 450.25			4	1							1
₹ 238.75			2		1	1	1	1	1	1	1
₹ 3251.50	1	2	2	1					1	1	
₹ 476.25			4	1	2		1		1		1
₹ 945.75		1	4		2		1			1	1
₹ 2000.50	1									1	
₹ 1521.00		3			1				1		

Exercise- 12.2

1. (a) ₹ 18 = 18 × 100 p = 1800 p
(b) ₹ 11.28 = 11.28 × 100 p = 1128 p
(c) ₹ 7.75 = 7.75 × 100 p = 775 p
(d) ₹ 25.25 = 25.25 × 100 p = 2525 p
(e) ₹ 75 = 75 × 100 p = 7500 p
(f) ₹ 46.75 = 45.75 × 100 p = 4675 p
(g) ₹ 20 = 20 × 100 p = 2000 p
(h) ₹ 472.65 = 472.65 × 100 p = 47265 p
(i) ₹ 18.50 = 18.50 × 100 p = 1850 p
(j) ₹ 75.25 = 75.25 × 100 p = 7525 p
(k) ₹ 137.45 = 137.45 × 100 p = 13745 p
(*l*) ₹ 93.70 = 93.70 × 100 p = 9370 p

2. (a) 198 p = ₹ 198 ÷ 100 = ₹ 1.98
(b) 310 p = ₹ 310 ÷ 100 = ₹ 3.10
(c) 3880 p = ₹ 3880 ÷ 100 = ₹ 38.80
(d) 660 p = ₹ 660 ÷ 100 = ₹ 6.60
(e) 1575 p = ₹ (1575 ÷ 100) = ₹ 15.75
(f) 7625 p = ₹ 7625 ÷ 100 = ₹ 76.25
(g) 560 p = ₹ (560 ÷ 100) = ₹ 5.60
(h) 2800 p = ₹ (2800 ÷ 100) = ₹ 28.00
(i) 2475 p = ₹ 2475 ÷ 100 = ₹ 24.75
(j) 950 p = ₹ 950 ÷ 100 = ₹ 9.50
(k) 375 p = ₹ (375 ÷ 100) = ₹ 3.75
(*l*) 4280 p = ₹ 4280 ÷ 100 = ₹ 42.80

Exercise- 12.3

1. (a)

₹		p
18	.	55
+ 19	.	25
₹ 37	.	80

(b)

₹		p
26	.	48
+ 36	.	57
₹ 63	.	05

(c)

₹		p
36	.	48
+ 21	.	60
₹ 58	.	08

(d)

₹		p
12	.	34
+ 63	.	25
₹ 75	.	59

(e)

₹		p
34	.	25
+ 34	.	40
₹ 68	.	65

(f)

₹		p
25	.	23
+ 34	.	66
₹ 59	.	89

(g)

₹		p
11	.	55
+ 18	.	25
₹ 29	.	80

(h)

₹		p
310	.	45
+ 319	.	43
₹ 629	.	88

(i)

₹		p
81	.	25
+ 15	.	20
₹ 96	.	45

2. (a)

₹ 7	.	30
+ ₹ 5	.	70
₹ 13	.	00

(b)

₹ 6	.	30
+ ₹ 10	.	60
₹ 16	.	90

(c)

₹ 63	.	60
+ ₹ 39	.	39
₹ 102	.	99

(d)

₹ 347	.	45
₹ 47	.	26
+ ₹ 145	.	13
₹ 539	.	84

(e)

₹ 245	.	75
₹ 46	.	50
+ ₹ 376	.	30
₹ 668	.	55

(f)

₹ 52	.	68
₹ 429	.	79
+ ₹ 373	.	58
₹ 856	.	05

(g)

₹ 2675	.	45
₹ 534	.	23
+ ₹ 385	.	09
₹ 3594	.	77

(h)

₹ 915	.	36
₹ 1729	.	48
+ ₹ 526	.	25
₹ 3171	.	09

(i)

₹ 825	.	73
₹ 83	.	54
+ ₹ 38	.	12
₹ 947	.	39

3. (a)

₹ 8	.	30
+ ₹ 6	.	70
₹ 15	.	00

(b)

₹ 7	.	30
+ ₹ 10	.	60
₹ 17	.	90

(c)

₹ 13	.	50
+ ₹ 36	.	45
₹ 49	.	95

(d)

₹ 25	.	50
+ ₹ 15	.	30
₹ 40	.	80

(e)

₹ 30	.	17
+ ₹ 21	.	16
₹ 51	.	33

(f)

₹ 48	.	13
+ ₹ 16	.	35
₹ 64	.	48

4. (a)

₹ 14	.	55
+ ₹ 22	.	45
₹ 37	.	00

(b)

₹ 68	.	25
+ ₹ 46	.	50
₹ 114	.	75

(c)

₹ 15	.	10
₹ 18	.	60
+ ₹ 25	.	75
₹ 59	.	45

(d)

₹ 32	.	50
+ ₹ 48	.	50
₹ 81	.	00

(e)

₹ 95	.	50
₹ 75	.	75
+ ₹ 195	.	85
₹ 367	.	10

(f)

₹ 36	.	45
₹ 428	.	75
+ ₹ 337	.	28
₹ 802	.	48

5. (a)

₹		**p**
75	.	65
– 23	.	80
51	.	85

(b)

₹		**p**
88	.	90
– 48	.	65
40	.	25

(c)

₹		**p**
68	.	70
– 45	.	90
22	.	80

(d)

₹		**p**
45	.	75
– 24	.	35
21	.	40

(e)

₹		**p**
97	.	45
– 42	.	12
55	.	33

(f)

₹		**p**
46	.	59
– 20	.	45
26	.	14

(g)

₹		p
535	.	80
– 115	.	60
420	.	20

(h)

₹		p
638	.	65
– 128	.	35
510	.	30

(i)

₹		p
43	.	83
– 42	.	51
01	.	32

6. (a)

₹ 79	.	61
– ₹ 14	.	29
₹ 65	.	32

(b)

₹ 37	.	49
– ₹ 4	.	64
₹ 32	.	85

(c)

₹ 73	.	49
– ₹ 16	.	61
₹ 56	.	88

(d)

₹ 88	.	46
– ₹ 16	.	49
₹ 71	.	97

(e)

₹ 45	.	49
– ₹ 15	.	46
₹ 30	.	03

(f)

₹ 84	.	42
– ₹ 42	.	68
₹ 41	.	74

(g)

₹ 242	.	42
– ₹ 52	.	31
₹ 190	.	11

(h)

₹ 82	.	01
– ₹ 41	.	92
₹ 40	.	09

(i)

₹ 91	.	31
– ₹ 41	.	06
₹ 50	.	25

(j)

₹ 646	.	00
– ₹ 92	.	64
₹ 553	.	36

(k)

₹ 484	.	39
– ₹ 164	.	36
₹ 320	.	03

(l)

₹ 300	.	01
– ₹ 49	.	24
₹ 250	.	77

7. (a)

₹ 13	.	25
– ₹ 7	.	13
₹ 6	.	12

(b)

₹ 26	.	32
– ₹ 17	.	60
₹ 8	.	72

(c)

₹ 236	.	50
– ₹ 230	.	50
₹ 6	.	00

(d)

₹ 36	.	45
– ₹ 32	.	60
₹ 03	.	85

(e)

₹ 50	.	60
– ₹ 46	.	30
₹ 04	.	30

(f)

₹ 226	.	12
– ₹ 89	.	08
₹ 137	.	04

(g)

₹ 289	.	45
– ₹ 178	.	60
₹ 110	.	85

(h)

₹ 684	.	00
– ₹ 550	.	50
₹ 133	.	50

(i)

₹ 2126	.	08
– ₹ 1058	.	80
₹ 1067	.	28

(j)

₹ 234	.	62
– ₹ 98	.	84
₹ 135	.	78

(k)

₹ 571	.	05
– ₹ 358	.	36
₹ 212	.	69

8. (a)

	₹ 50	.	00
–	₹ 29	.	25
	₹ 20	.	75

(b)

	₹ 43	.	85
–	₹ 29	.	75
	₹ 14	.	10

(c)

	₹ 168	.	80
–	₹ 137	.	90
	₹ 133	.	90

(d)

	₹ 100	.	00
–	₹ 48	.	50
	₹ 51	.	50

(e)

	₹ 433	.	75
–	₹ 389	.	25
	₹ 44	.	50

(f)

	₹ 970	.	00
–	₹ 695	.	00
	₹ 275	.	00

Exercise- 12.4

1. Have = ₹ 70 . 60
Bought book for = – ₹ 13 . 90
Money left = ₹ 56 . 70

2. Geometry box costs = ₹ 18 . 90
Pen box costs = + ₹ 6 . 70
Kamini needs = ₹ 25 . 60

3. Spend on shirt = ₹ 30 . 75
Ram have = + ₹ 28 . 50
Ram have at first = ₹ 59 . 25

4. Rashi had = ₹ 15 . 25
Her mother gave = + ₹ 25 . 75
Rashi has now = ₹ 41 . 00

5. Narendra had = ₹ 20 . 00
Spend on stamp = – ₹ 15 . 75
He got back = ₹ 4 . 25

6. Malik gave = ₹ 100 . 00
Ticket cost = – ₹ 58 . 50
He get back = ₹ 41 . 50

7. Balu have = ₹ 329 . 70
Lalit have = – ₹ 248 . 30
Balu have more = ₹ 81 . 40

8. Cost of book = ₹ 125 . 50
Bhola had = – ₹ 50 . 00
He need more = ₹ 75 . 50

9. Fees paid in Ist instalment = ₹ 175 . 70
Fees paid in IInd instalment = + ₹ 154 . 80
Total fees = ₹ 330 . 50

10. Spend on apples = ₹ 18 . 00
Spend on oranges = ₹ 12 . 75
Spend on bananas = + ₹ 7 . 00
Money spend by Sudhir = ₹ 37 .75

11. Cost of note book = ₹ 6 . 80
Cost of text book = + ₹ 12 . 75
Total cost = ₹ 19 . 55

Anu give = ₹ 50 . 00
Total cost = – ₹ 19 . 55
Anu get back = ₹ 30 . 45

12. Family monthly income = ₹ 9438 . 00
Family monthly expenditure = – ₹ 8436 . 45
Family monthly saving = ₹ 1001 . 55

Exercise- 12.5

1. (a)

₹	p
17	18
×	4
68 .	72

(b)

₹	p
22	5
×	7
154 .	35

(c)

₹	p
6	5
×	8
48 .	40

(d)

₹	p
16	32
×	2
32 .	64

(e)

₹	p
10	8
×	2
20 .	16

(f)

₹	p
15	6
×	3
45 .	18

(g)

₹	p
19	11
×	4
76 .	44

(h)

₹	p
22	6
×	2
44 .	12

(i)

₹	p
20	19
×	2
40 .	38

2. (a)

	2	5	p
×		7	
1	7	5	p

or ₹ 1 . 75

(b)

1	8	p
×	8	
1	4	4 p

or ₹ 1 . 44

(c)

3	5	p
×	4	
1	4	0 p

or ₹ 1 . 40

(d)

3	9	p
×	3	
1	1	7 p

or ₹ 1 . 17

(e)

3	2	p
×	6	
1	9	2 p

or ₹ 1 . 92

(f)

	2	9 p
×	1	1
3	1	9 p

or ₹ 3 . 19

(g)

	4	8 p
×	9	
4	3	2 p

or ₹ 4 . 32

(h)

	1	6 p
×	8	
1	2	8 p

or ₹ 1 . 28

(i)

	2	6 p
×	9	
2	3	4 p

or ₹ 2 . 34

(j)

	4	9 p
×	5	
2	4	5 p

or ₹ 2 . 45

(k)

	5	6 p
×	7	
3	9	2 p

or ₹ 3 . 92

(l)

	8	9 p
×	9	
8	0	1 p

or ₹ 8 . 01

(m)
```
    4 3 p
  × 5
  2 1 5 p
```
or ₹ 2 . 15

(n)
```
    6 0 p
  × 6
  3 6 0 p
```
or ₹ 3 . 60

(o)
```
    8 4 p
  × 4
  3 3 6 p
```
or ₹ 3 . 36

(p)
```
    7 6 p
  × 2
  1 5 2 p
```
or ₹ 1 . 52

(q)
```
    3 7 p
  × 7
  2 5 9 p
```
or ₹ 2 . 59

(r)
```
    4 8 p
  × 3
  1 4 4 p
```
or ₹ 1 . 44

3. (a)
```
  ₹ 24 . 32
      × 4
  ₹ 97 . 28
```

(b)
```
  ₹ 246 . 61
      × 2
  ₹ 493 . 22
```

(c)
```
  ₹ 81 . 39
      × 2
  ₹ 162 . 78
```

(d)
```
  ₹ 38 . 36
      × 6
  ₹ 230 . 16
```

(e)
```
  ₹ 59 . 36
      × 7
  ₹ 415 . 52
```

(f)
```
  ₹ 68 . 44
      × 4
  ₹ 273 . 76
```

(g)
```
  ₹ 58 . 47
      × 6
  ₹ 350 . 82
```

(h)
```
  ₹ 207 . 06
      × 8
  ₹ 1656 . 48
```

(i)
```
  ₹ 840 . 68
      × 9
  ₹ 7566 . 12
```

(j)
```
  ₹ 92 . 45
      × 7
  ₹ 647 . 15
```

(k)
```
  ₹ 71 . 34
      × 5
  ₹ 356 . 70
```

(l)
```
  ₹ 239 . 64
      × 8
  ₹ 1917 . 12
```

4. (a)
```
  ₹ 59 . 80
      × 9
  ₹ 538 . 20
```

(b)
```
  ₹ 578 . 85
      × 4
  ₹ 2315 . 4
```

(c)
```
  ₹ 316 . 35
      × 3
  ₹ 949 . 05
```

(d)
```
  ₹ 89 . 79
      × 8
  ₹ 718 . 32
```

(e)
```
  ₹ 22 . 25
      × 8
  ₹ 178 . 00
```

(f)
```
  ₹ 707 . 75
      × 3
  ₹ 2123 . 25
```

(g)
```
  ₹ 920 . 65
      × 6
  ₹ 5523 . 90
```

(h)
```
  ₹ 608 . 62
      × 9
  ₹ 5477 . 58
```

(i)
```
  ₹ 7 5
    × 7
  ₹ 5 2 5
```

(j)
```
  ₹ 27 . 84
      × 8
  ₹ 222 . 72
```

5. (a) 48 p ÷ 12 = **4** p

```
      4
12 ) 48
    –48
     0
```

(b) 126 p ÷ 6 = **21** p

```
      21
6 ) 126
    –12
      06
    –  6
       0
```

(c) 80 p ÷ 10 = **8** p

```
      8
10 ) 80
    –80
     0
```

(d) 84 p ÷ 7 = **12** p

```
      12
7 ) 84
    –7
     14
    –14
      0
```

(e) 72 p ÷ 8 = **9** p

```
      9
8 ) 72
    –72
     0
```

(f) 60 p ÷ 6 = **10** p

```
      10
6 ) 60
    –6
     0
```

(g) 60 p ÷ 10 = **6** p

```
      6
10 ) 60
    –60
     0
```

(h) 55 p ÷ 5 = **11** p

```
      11
5 ) 55
    –5
     05
    – 5
      0
```

(i) 48 p ÷ 8 = **6** p

```
      6
8 ) 48
    –48
     0
```

(j) 56 p ÷ 7 = **8** p

```
      8
7 ) 56
    –56
     0
```

(k) 39 p ÷ 13 = **3** p

```
      3
13 ) 39
    –39
     0
```

(l) 160 p ÷ 16 = **10** p

```
      10
16 ) 160
    –16
     00
```

6. (a) ₹ 80 ÷ 10 = ₹ **8**

```
      8
10 ) 80
    –80
     0
```

(b) ₹ 35 ÷ 7 = ₹ **5**

```
      5
7 ) 35
    –35
     0
```

(c) ₹ 48 ÷ 8 = ₹ **6**

```
     6
8 ) 48
   –48
    0
```

(d) ₹ 64 ÷ 8 = ₹ **8**

```
     8
8 ) 64
   –64
    0
```

(e) ₹ 72 ÷ 12 = ₹ **6**

```
      6
12 ) 72
    –72
     0
```

(f) ₹ 60 ÷ 4 = ₹ **15**

```
     15
4 ) 60
   –4
    20
   –20
     0
```

(g) ₹ 52 ÷ 4 = ₹ **13**

```
     13
4 ) 52
   –4
    12
   –12
     0
```

(h) ₹ 90 ÷ 6 = ₹ **15**

```
     15
6 ) 90
   –6
    30
   –30
     0
```

(i) ₹ 108 ÷ 12 = ₹ **9**

```
       9
12 ) 108
    –108
       0
```

(j) ₹ 78 ÷ 13 = ₹ **6**

```
      6
13 ) 78
    –78
     0
```

(k) ₹ 80 ÷ 5 = ₹ **16**

```
     16
5 ) 80
   –5
    30
   –30
     0
```

(l) ₹ 60 ÷ 12 = ₹ **5**

```
       5
12 ) 60
    –60
     0
```

(m) ₹ 130 ÷ 13 = ₹ **10**

```
       10
13 ) 130
    –13
     00
```

(n) ₹ 110 ÷ 11 = ₹ **10**

```
       11
11 ) 110
    –13
     00
```

7. (a) ₹ 20.25 ÷ 5 = ₹ 4.05

```
      4.05
5 ) 20.25
   −20
    0.25
  −  25
       0
```

(b) ₹ 20.84 ÷ 4 = ₹ 5.21

```
      5.21
4 ) 20.84
   −20
       8
    − 8
      04
    −04
       0
```

(c) ₹ 78.65 ÷ 11 = ₹ 7.15

```
      7.15
11 ) 78.65
   −77
     16
   −11
      55
    −55
       0
```

(d) ₹ 707.7 ÷ 7 = ₹ 101.10

```
      101.1
7 ) 707.7
   −7
    007
     −7
      07
    − 7
       0
```

(e) ₹ 524.20 ÷ 10 = ₹ 52.42

```
      52.42
10 ) 524.20
   −50
     24
   −20
      42
    −40
       20
     −20
        0
```

(f) ₹ 35.43 ÷ 3 = ₹ 11.81

```
      11.81
3 ) 35.43
   −3
     05
   − 3
      24
    −24
      03
     −3
       0
```

(g) ₹ 544.44 ÷ 20 = ₹ 27.222

```
      27.222
20 ) 544.44
   −40
    144
  −140
      44
    −40
      44
    −40
       40
     −40
        0
```

(h) ₹ 112.80 ÷ 5 = ₹ 22.56

```
      22.56
5 ) 112.80
   −10
     12
   −10
      28
    −25
       30
     −30
        0
```

(i) ₹ 900.20 ÷ 10 = ₹ 90.02

```
      90.02
10 ) 900.20
     −90
      0020
      − 20
         0
```

(j) ₹ 50.15 ÷ 5 = ₹ 10.03

```
      10.03
5 ) 50.15
    −5
     0015
     − 15
        0
```

8. (a) ₹ 435.40 ÷ 7 = ₹ 62.20

```
      62.20
7 ) 435.40
   −42
     15
   −14
     14
   −14
      0
```

(b) ₹ 5431.50 ÷ 15 = ₹ 362.10

```
       362.10
15 ) 5431.50
    −45
      93
    −90
       31
    −30
        15
     −15
        0
```

(c) ₹ 207.60 ÷ 3 = ₹ 69.20

```
      69.20
3 ) 207.60
   −18
     27
   −27
      06
     −6
      0
```

(d) ₹ 45.15 ÷ 15 = ₹ 3.01

```
       3.01
15 ) 45.15
    −45
     0 15
     − 15
        0
```

(e) ₹ 32.80 ÷ 8 = ₹ 4.10

```
      4.10
8 ) 32.80
   −32
     08
   − 8
      0
```

(f) ₹ 892.56 ÷ 12 = ₹ 74.38

```
       74.38
12 ) 892.56
    −84
      52
    −48
       45
    −36
        96
     −96
        0
```

(g) ₹ 63.49 ÷ 7 = ₹ 9.07

```
      9.07
7 ) 63.49
   −63
     049
   − 49
      0
```

(h) ₹ 32.88 ÷ 8 = ₹ 4.11

```
      4.11
8 ) 32.88
   −32
    08
   −8
     08
   −08
      0
```

Exercise- 12.6

1. Cost of 1 pen = ₹ 15.50
Cost of 5 pens = ₹ 15.50 × 5 = ₹ 77.50

```
  1 5 . 5 0
          × 5
  7 7 . 5 0
```

2. Cost of 1 ticket = ₹ 154.75
Cost of 3 tickets = ₹ 154.75 × 3 = ₹ 464.25

```
  1 5 4 . 7 5
            × 3
  4 6 4 . 2 5
```

3. Cost of 8 boxes = ₹ 194
Cost of 1 box = ₹ 194 ÷ 8 = ₹ 24.25

```
      24.25
8 ) 194
   −16
     34
   −32
      20
   −16
       40
    −40
       0
```

4. (a) Cost of 8 bottles = ₹ 392
Cost of 1 bottle = ₹ 392 ÷ 8 = ₹ 49

```
     49
8 ) 392
   −32
     72
   −72
      0
```

Mother given = ₹ 500
Cost of 8 bottles = −₹ 392
Mother get = ₹ 108

5. Cost of 1 chocolate = ₹ 89.75
Cost of 8 chocolates = ₹ 89.75 × 8 = ₹ 718.00

```
  8 9 . 7 5
          × 8
-----------
7 1 8 . 0 0
```

6. Cost of Jeans = ₹ 425 . 00
Cost of top = +₹ 165 . 70
Honey spend in all = ₹ 590. 70

7. Cost of 8 flowers = ₹ 90.40
Cost of 1 flower = ₹ 90.40 ÷ 8 = ₹ 11.30

```
      11.30
8 ) 90.40
   −8
    10
   −8
     24
   −24
      0
```

8. Cost of 2 pens = ₹ 38 . 25 × 2
Cost of 2 pens = ₹ 76 . 50
Cost of board = ₹ 172 . 50
Cost of gluestick = +₹ 23 . 75
Total cost = ₹ 272 . 75
Kinjal gave = ₹ 3 7 5 . 0 0
Spend = −₹ 272 . 75
Kinjal left with = ₹ 1 0 2 . 2 5

9. Cost of box = ₹ 315 . 25
Cost of clips = +₹ 122 . 00
₹ 437 . 25
Total cost = ₹ 627 . 50
Cost of 2 items = −₹ 437 . 25
Cost of bracelet = ₹ 190 . 25

10. Cost of 2 paint boxes = ₹ 45.30 × 2 = ₹ 90.60
Cost of 3 paint brushes = ₹ 22.45 × 3 = ₹ 67.35
Cost of 4 sheets = ₹ 2.25 × 4 = ₹ 09.00
Spent on paint boxes = ₹ 90 . 60
Spent on brushes = ₹ 67 . 35
Spent on sheets = +₹ 9 . 00
Spent in all = ₹ 166 . 95

11. Dhruv had = ₹ 79 . 35
He gave = −₹ 36 . 95
Dhruv left with = ₹ 42 . 40

12. Sherry gave = ₹ 100 . 00
Sherry bought stamp for = −₹ 39 . 50
Sherry get back = ₹ 60 . 50

13. Abha gave to Radhika = ₹ 132 . 80
Abha gave to Sister = + ₹ 85 . 00
Total money given by Abha = ₹ 217 . 80

Abha had = ₹ 495 . 00
Abha given = – ₹ 217 . 80
Abha left with = ₹ 277 . 20

Exercise- 12.7

1.

S.No.	Item	Quantity	Rate	₹	P
1.	Balls	3	₹ 8	24	00
2.	Toy car	1	₹ 65	65	00
3.	Balloons	3	₹ 3	09	00
4.	Teddy bear	1	₹ 70	70	00
			Grand Total	168	00

2.

S.No.	Item	Quantity	Rate	₹	P
1.	Cars	2	₹ 15.00	30	00
2.	Pencils boxes	3	₹ 10.50	31	50
3.	Doll	1	₹ 55.00	55	00
4.	Balls	3	₹ 3.0	9	00
			Grand Total	125	50

3. (a)

S.No.	Item	₹	P
1.	Vegetable	45	00
2.	Juice	56	50
3.	Fruits	78	50
	Grand Total	170	00

(b)

S.No.	Item	Quantity	Rate	₹	P
1.	Pencils	6	₹ 5	30	00
2.	Erasers	4	₹ 3	12	00
3.	Sharpeners	4	₹ 8	32	00
4.	Colour box	1	₹ 12.50	12	50
			Grand Total	86	50

Pratik had	=	₹ 100 . 00
Pratik spent	=	– ₹ 86 . 50
Pratik get back	=	₹ 13 . 50

MCQs

1. (a) **2.** (c) **3.** (b) **4.** (b)

Mental Maths

(a) 426 p ◯ ₹ 42.60
426 p < 4260 p

(b) 7178 p ◯ ₹ 71.78
7178 p = 7178 p

(c) 639 p ◯ ₹ 36.90
639 p < 3690 p

(d) ₹ 14.50 ◯ ₹ 18.50
1450 p < 1850 p

(e) ₹ 7.00 ◯ 500 p + 200 p
700 p = 700 p

(f) ₹ 10 + ₹ 20 ◯ 300 p
₹ 30 ◯ 300 p
3000 p > 300 p

Test Exercise

1. (a) ₹ 6 = 6 × 100 p = **600** p
(b) ₹ 14.25 = 14.25 × 100 p = **1425** p
(c) ₹ 715 p = ₹ (715 ÷ 100) = ₹ **7.15**
(d) 1860 p = ₹ (1860 ÷ 100) = ₹ **18.60**

2. (a)

₹	96 .	00
+ ₹	242 .	34
₹	338 .	34

(b)

₹	350 .	05
₹	713 .	25
+ ₹	542 .	60
₹	1605 .	90

(c)

₹	8 .	75
₹	94 .	32
+ ₹	631 .	60
₹	734 .	67

(d)

₹	986 .	00
+ ₹	474 .	70
₹	1460 .	70

3. (a)

₹	56 .	47
– ₹	32 .	45
₹	24 .	02

(b)

₹	919 .	85
– ₹	539 .	16
₹	380 .	69

(c)

₹	696 .	32
– ₹	471 .	00
₹	225 .	32

(d)

₹	931 .	68
– ₹	820 .	50
₹	111 .	18

4. (a)

₹	3 .	95
×		6
₹	23 .	70

(b)

₹	12 .	26
×		8
₹	98 .	08

(c)

₹	32 .	47
×		9
₹	292 .	23

(d)

₹	60 .	15
×		7
₹	421 .	05

5. (a) ₹ 45.75 ÷ 3 = ₹ 15.25

```
     15.25
  3 ) 45.75
     −3
     ----
      15
     −15
     ----
       7
      −6
     ----
      15
     −15
     ----
       0
```

(b) ₹ 25.50 ÷ 5 = ₹ 5.10

```
     5.10
  5 ) 25.50
     −25
     ----
      05
      −5
     ----
       0
```

(c) ₹ 81.63 ÷ 9 = ₹ 9.07

```
     9.07
  9 ) 81.63
     −81
     ----
      063
     −63
     ----
       0
```

(d) ₹ 48.32 ÷ 8 = ₹ 6.04

```
     6.04
  8 ) 48.32
     −48
     ----
      032
     −32
     ----
       0
```

6. (a) (ii) Cost of 1 ice-cream = ₹ 25.25

Cost of 4 ice-creams = ₹ 25.25 × 4 = ₹ 101.00

```
    2 5 . 2 5
            × 4
  -----------
  1 0 1 . 0 0
```

(b) (iii) ₹ 28 and 5 p = (28 × 100) p + 5 p = 2800 p + 5 p = 2805 p

7. Cost of 2 burgers = ₹ 28 . 75 × 2

Cost of 2 burgers = ₹ 57 . 50

Cost of pastry = ₹ 35 . 00

Cost of juice = + ₹ 35 . 00

Total cost = ₹ 143 . 00

Radhika had = ₹ 250 . 00

She spent = − ₹ 143 . 00

She get back = ₹ 107 . 00

8.

S.No.	Item	Quantity	Rate	₹	P
1.	Hot coffee	1	₹ 12.50	12	50
2.	Sandwiches (club)	2	₹ 30.25	60	50
3.	French fries	1	₹ 25.00	25	00
4.	Cold coffee	1	₹ 18.50	18	50
5.	Sandwiches (Coleslaw)	3	₹ 32.25	96	75
			Grand Total	213	25

Total amount paid together = ₹ 213.25

Exercise- 13.1

1. (a) 3 o'clock
(b) 2 : 30
(c) 7 : 15
(d) 10 : 45
(e) 11 : 38
(f) 8 : 21
(g) 1 : 41
(h) 9 : 06

2. (a)

10 : 00

(b)

9 : 15

(c)

6 : 30

(d)

10 : 25

(e)

8 : 45

(f)

6 : 15

(g)

5 : 05

(h)

7 : 50

(i)

8 : 45

(j)

8 : 00

(k)

7 : 30

(l)

6 : 20

(m)

1 : 40

(n)

10 : 40

(o)

6 : 45

(p)

5 : 00

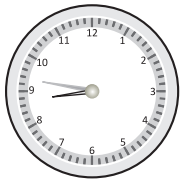
(q)

4 : 20

(r)

11 : 45

(s)



8 : 45

(t)

8 : 30

(u)

7 : 00

Exercise- 13.2

1. (b) 2 : 55
5 minutes to 3

(c) 6 : 15
Quarter past 6

(d) 8 :25
25 minutes past 8

(e) 5 : 50
10 minutes to 6

(f) 7 : 10
10 minutes past 7

2. (a)

9 : 40

(b)

7 : 45

(c)

3 : 50

(d)

11 : 05

(e)

8 : 15

(f)

5 : 25

Exercise- 13.3

1. (a) 4 : 30 am (b) 3 : 00 am (c) 8 : 30 am
(d) 9 : 30 pm (e) 11 : 45 am (f) 11 : 15 am
(g) 6 : 30 pm (h) 7 : 15 pm (i) 6 : 15 am
(j) 9 : 45 pm
(k) 1 : 00 pm
(l) 1 : 40 pm
(m) 10 : 50 am
(n) 2 : 01 pm
(o) 12 : 45 am

2. (a) Rupan gets up at 6 : 00 pm or 6 : 00 am

(b) Rupan gets to school at 8 : 00 am or 8 : 00 pm

(c) The sunrises at 5 : 45 am or 5 : 45 pm

(d) Rupan play football at 5 : 00 am or 5 : 00 pm

(e) Rupan's father comes from his office at 5 : 00 am or 5 : 00 pm

(f) Rupan sleeps at 9 : 30 pm or 9 : 30 am

(g) A quater pass 4 : 00 am or 4 : 00 pm is Rupan's study time

(h) A quater to 9 : 00 am or 9 : 00 pm is the time for Rupan's dinner

(i) A quarter to 10 : 00 am or 10 : 00 pm is the time to go to office for work

Exercise- 13.4

1. (a) 9 hours $= 9 \times 60$ minutes $= 540$ minutes

(b) 7 hours $= 7 \times 60$ minutes $= 420$ minutes

(c) 16 hours $= 16 \times 60$ minutes $= 960$ minutes

(d) 2 hours 45 minutes $= 2$ hours $+ 45$ minutes

$= (2 \times 60 + 45)$ minutes $= 165$ minutes

(e) 10 hours 15 minutes $= 10$ hours $+ 15$ minutes

$= (10 \times 60)$ minutes $+ 15$ minutes

$= 600$ minutes $+ 15$ minutes $= 615$ minutes

(f) 13 hours 25 minutes $= 13$ hours $+ 25$ minutes

$= (13 \times 60)$ minutes $+ 25$ minutes

$= 780$ minutes $+ 25$ minutes $= 805$ minutes

(g) $4\frac{1}{2}$ hour $= \frac{9}{2}$ hours $= \frac{9}{2} \times 60$ minutes $= 9 \times 30 = 270$ minutes

(h) 6 hours 50 minutes $= 6$ hours $+ 50$ minutes

$= 6 \times 60$ minutes $+ 50$ minutes

$= 360$ minutes $+ 50$ minutes $= 410$ minutes

(i) 117 hours $= 117 \times 60$ minutes $= 7020$ minutes

2. Time taken by Ajit $= 245$ minutes

Time taken by Somya $= 3$ hours 15 min

$= 3$ hours $+ 15$ minutes

$= (3 \times 60)$ minutes $+ 15$ minute

$= (180 + 15)$ minutes $+ 195$ minutes

Somya travelled faster

3. Mother spent 1 hour 20 minutes $= 1$ hour $+ 20$ minutes

$= 1 \times 60$ minutes $+ 20$ minutes

$= (60 + 20)$ minutes

My mother spent $= 80$ minutes

Exercise- 13.5

1. (a) Republic day (Friday)

(b) Gandhiji Birthday (Wednesday)

(c) Independence day (Thursday)

(d) Christmas day (Wednesday)

(e) New year's day (Monday)

(f) Teacher's day (Thursday)

(g) Children day (Thursday)

(h) World Earth day (Monday)

(i) Dr. Ambedkar's Birthday (Sunday)

(j) Your's birthday (Do yourself)

2. (a) 7th January (b) 5
(c) 4 (d) 29th December
(e) 2, 18 October, Friday

Exercise- 13.6

1. (a) 9 months and 2 weeks $= (9 \times 30)$ days $+ (2 \times 7)$ days
$= 270$ days $+ 14$ days $= 284$ days

(b) June $+$ 3 weeks $+$ 30 days $= 30$ days $+ (3 \times 7)$ days $+ 30$ days
$= 30$ days $+ 21$ days $+ 30$ days $= 81$ days

(c) April $+ 9$ days $= 30$ days $+ 9$ days $= 39$ days

(d) February $+$ March $+$ October $= 29$ days $+ 31$ days $+ 31$ days $= 91$ days

(e) 3 weeks $+ 4$ days $= (3 \times 7)$ days $+ 4$ days $= 25$ days

(f) 2 weeks $+ 3$ weeks $= 5$ weeks $= (5 \times 7)$ days $= 35$ days

(g) $3\frac{1}{2}$ months $= \frac{7}{2}$ months $= \left(\frac{7}{2} \times 30\right)$ days $= 7 \times 15$ days $= 105$ days

(h) November $+$ 2 weeks $= 30$ days $+ (2 \times 7)$ days
$= 30$ days $+ 14$ days $= 44$ days

2. (a) 2 days $= (2 \times 24)$ hours $= 48$ hours

(b) 1 week $= 7$ days $= (7 \times 24)$ hours $= 168$ hours

(c) $2\frac{1}{2}$ days $= \frac{5}{2}$ days $= \left(\frac{5}{2} \times 24\right)$ hours $= (5 \times 12)$ hours $= 60$ hours

(d) 5 days $= 5 \times 24$ hours $= 120$ hours

(e) 2 days $+ 2$ hours $= (2 \times 24)$ hours $+ 2$ hours
$= 48$ hours $+ 2$ hours $= 50$ hours

(f) 10 days $+ 10$ hours $= (10 \times 24)$ hours $+ 10$ hours
$= 240$ hours $+ 10$ hours $= 250$ hours

(g) $4\frac{1}{2}$ days $= \frac{9}{2}$ days $= \left(\frac{9}{2} \times 24\right)$ hours $= 9 \times 12$ hours $= 108$ hours

(h) 1 week $+ 2$ days $= 7$ days $+ 2$ days $= 9$ days $= (9 \times 24)$ hours $= 216$ hours

3. (a) 5 hours $= 5 \times 60$ minutes $= 300$ minutes

(b) 8 hours 48 minute $= (8 \times 60)$ minutes $+ 48$ minutes
$= 480$ minutes $+ 48$ minutes $= 528$ minutes

(c) 4 mintues 24 seconds $= 4$ minutes $+ 24$ seconds
$= (4 \times 60)$ seconds $+ 24$ seconds
$= 240$ seconds $+ 24$ seconds
$= 264$ seconds

(d) 7 hours 41 minutes $= 7$ hours $+ 41$ minutes
$= (7 \times 60)$ minutes $+ 41$ minutes
$= 420$ minutes $+ 41$ minutes
$= 461$ minutes

(e) 4 days 7 hours $=$ 4 days $+$ 7 hours $=(4\times 24)$ hours $+$ 7 hours
$=$ 96 hours $+$ 7 hours
$=$ 103 hours

(f) 7 weeks 5 days $=$ 7 weeks $+$ 5 days $=(7\times 7)$ days $+$ 5 days
$=$ 49 days $+$ 5 days
$=$ 54 days

(g) 1 year 8 months $=$ 1 year $+$ 8 months
$=$ 12 months $+$ 8 months
$=$ 20 months

(h) 5 weeks 7 days $=(5\times 7)$ days $+$ 7 days $=$ 35 days $+$ 7 days
$=$ 42 days $=(42\times 24)$ hours $=$ 1008 hours

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

(i) 3 weeks 3 days $=$ 3 weeks $+$ 3 days $=(3\times 7)$ days $+$ 3 days
$=$ 21 days $+$ 3 days $=$ 24 days
$=(24\times 24)$ hours $=$ 576 hours

$$\begin{array}{r} 2\ 4 \\ \times\ 2\ 4 \\ \hline 9\ 6 \\ 4\ 8\ \times \\ \hline 5\ 7\ 6 \\ \hline \end{array}$$

(j) 14 days 7 hours $=$ 14 days $+$ 7 hours
$=(14\times 24)$ hours $+$ 7 hours
$=(336+7)$ hours $=$ 343 hours

$$\begin{array}{r} 2\ 4 \\ \times\ 1\ 4 \\ \hline 9\ 6 \\ 2\ 4\ \times \\ \hline 3\ 3\ 6 \\ \hline \end{array}$$

(k) 10 weeks $=(10\times 7)$ days $=$ 70 days
$=(70\times 24)$ hours $=$ 1680 hours

$$\begin{array}{r} 7\ 0 \\ \times\ 2\ 4 \\ \hline 2\ 8\ 0 \\ 1\ 4\ 0\ \times \\ \hline 1\ 6\ 8\ 0 \\ \hline \end{array}$$

(l) 2 weeks 5 days = 2 weeks + 5 days = (2 × 7) days + 5 days
= 14 days + 5 days = 19 days
= (19 × 24) hours = 456 hours

$$\begin{array}{r} 2\ 4 \\ \times\ 1\ 9 \\ \hline 2\ 1\ 6 \\ 2\ 4\ \times \\ \hline 4\ 5\ 6 \\ \hline \end{array}$$

(m) 4 years 7 months = 4 years + 7 months = (4 × 12) months + 7 months
= 48 months + 7 months = 55 months

(n) 3 years 100 days = 3 years + 100 days
= (3 × 365) days + 100 days
= (1095) days + 100 days = 1195 days

(o) 7 years 45 days = 7 years + 45 days = (7 × 365) days + 45 days
= 2555 days + 45 days = 2600 days

Exercise- 13.7

1. (a)

min
23
+ 23
46 minutes

(b)

min
24
+ 29
53 minutes

(c)

min
30
+ 26
56 minutes

(d)

min
28
+ 18
46 minutes

(e)

min
27
+ 24
51 minutes

(f)

min
40
+ 14
54 minutes

(g)

min
9
+ 21
30 minutes

(h)

min
7
+ 48
55 minutes

(i)

hrs	**min**
6	34
+ 3	17
9	51

(j)

hrs	**min**
9	28
+ 10	25
19	53

(k)

hrs	**min**
7	24
+ 10	31
17	55

(l)

hrs	**min**
10	15
+ 15	34
25	49

(m)

	hrs	min	sec
	15	16	20
+	6	18	16
	21	34	36

(n)

	hrs	min	sec
	8	15	36
+	9	28	14
	17	43	50

2. (a)

	min
	40
–	25
	15 minutes

(b)

	min
	47
–	29
	18 minutes

(c)

	min
	28
–	9
	19 minutes

(d)

	min
	51
–	16
	35 minutes

(e)

	hrs	min
	25	34
–	8	19
	17	15

(f)

	hrs	min
	20	41
–	6	9
	14	32

(g)

	hrs	min
	14	27
–	13	20
	1	07

(h)

	hrs	min
	24	45
–	21	29
	03	16

(i)

	hrs	min	sec
	25	38	41
–	6	09	18
	19	29	23

(j)

	hrs	min	sec
	41	42	51
–	6	38	29
	35	04	22

Exercise- 13.8

1. Leaves January = 17 days
Leaves February = + 16 days
Total leaves = 33 days

2. Leaves of February = 10 days
Total leaves = 27 days
Leaves of March = 27 – 10 = 17 days
∴ Last day of leave 17th March

3. Leaves of January = 24 days
Leaves of February = 28 days
Leaves of March = + 9 days
Total leaves = 61 days

4. Days of February = 23 days
Days of March = 31 days
Days of April = 30 days
Days of May = 31 days
Days of June = 30 days
Days of July = + 17 days
162 days

5. Days stayed in May = 30 days
Days stayed in June = + 3 days
33 days

6. Days of March = 24 days
Total days 40 worked
Nirmal worked in April $40 - 24 = 16$
$\therefore$ He worked upto 16th April he left office on 17th April

MCQs

1. (b) **2.** (b) **3.** (b) **4.** (a)

Mental Maths

1. Rice to grow from seed (Months)
2. You to reach class 7 (Years)
3. A tailor to stitch a dress (Hours)
4. You to sing song (Minutes)
5. Your nails to grow (Days)
6. You to brush your teeth (Minutes)
7. You to reach Chennai from Delhi by train (Days)
8. You to reach Chennai from Delhi by plane (Hours)

Test Exercise

1. 3 : 25
25 minutes past 3

2.

2 : 55 (5 minutes to 3)

3. 3 : 25 (25 minutes past 3)

4. (a) 4 : 45 pm (b) 8 : 14 am

5.

Minutes hand on	3	5	6	7	9	11
Minutes passed	15	25	30	35	45	55

6. (a) The month of February has **28/29** days
   (b) July and August have **31** days
   (c) 6 : 05 can be read as **5 minutes past 6**.
   (d) The time 6 hours before 2 : 30 pm is **8 : 30 am**.
7. January 31 days
   December 31 days
   September 30 days
   September 30 days
8. February is special month has neither 30 nor 31 days

14 Data Handling

Exercise- 14.1

1. (a) Vikas have maximum number of pencils
   (b) Rohit have minimum number of pencils
   (c) Irfan have 20 pencils
   (d) Rashi have more pencils than Anjali by $(30-20)=10$
2. (a) In III A number of students are 25
   In III B number of students are 20
   In III C number of students are 30
   In III D number of students are 25
   (b) In III B minimum children
   (c) In III C maximum children
   (d) III A and III D have same number of children
3. (a) Tiger and Rhinoceroses are least and there number are 20-20
   (b) Foxes are maximum their number are 60
   (c) There are 30 elephants in forest
   (d) There are 30 deers in forest
   (e) There are 20 tigers in forest
4. (a) Apples sold 200
   Mangoes sold 300
   Oranges sold 100
   Guava sold 400
   Cherry sold 500
   (b) Orange is sold least
   (c) Cherry is sold maximum
   (d) Total fruits sold $=200+300+100+400+500=1500$

Exercise- 14.2

1.

Eatables	Tally marks	Frequency
Samosas	卌 卌 卌 |	16
Chips packets	卌 卌 ||	12
Biscuits	卌 卌	10
Popcorns	卌 卌 ||	12

2.

Cold drinks	Tally marks	Frequency
Limca	卌 卌 卌 |	16
Coke	卌 卌 ||	12
Pepsi	卌 卌 |||	13
Mirinda	卌 卌 卌 ||	17
Maaza	卌 卌 卌 |||	18
Thums up	卌 卌 ||||	14
7 up	卌 卌 |	11

3.

Modes of Transport	Tally marks	Frequency
Bikes	||||	4
Cars	卌	5
Autorickshaws	||	2
Scooters	||||	4
Rickshaws	||	2
Bus	|	1

(a) Most preferred transport is car
(b) Transport liked least bus

4.

Colours	Tally marks	Frequency
Red	||||	4
Green	卌 ||	7
Blue	||||	4
Yellow	卌	5

(a) Four friends like the colour red (b) Four friends like the colour blue
(c) Green colour is liked by most of the friends
(d) Yellow colour is liked by 5 of her friends

MCQs

1. (c) **2.** (b) **3.** (a)

Mental Maths

☺ should represent 5 people

Test Exercise

1.

Vowels	Tally marks	Frequency
A	𝍸 ||	7
E	𝍸 𝍸 𝍸 𝍸 𝍸	25
I	𝍸 𝍸 |	11
O	𝍸 𝍸 𝍸 𝍸	20
U	𝍸 ||	7

Pictograph

Vowels	Number of Vowels
A	Ⓐ Ⓐ Ⓐ Ⓐ Ⓐ Ⓐ Ⓐ
E	Ⓔ Ⓔ
I	Ⓘ Ⓘ Ⓘ Ⓘ Ⓘ Ⓘ Ⓘ Ⓘ Ⓘ Ⓘ Ⓘ
O	Ⓞ Ⓞ Ⓞ Ⓞ Ⓞ Ⓞ Ⓞ Ⓞ Ⓞ Ⓞ Ⓞ Ⓞ Ⓞ Ⓞ Ⓞ Ⓞ Ⓞ Ⓞ Ⓞ Ⓞ
U	Ⓤ Ⓤ Ⓤ Ⓤ Ⓤ Ⓤ Ⓤ
Ⓐ → A Ⓔ → E Ⓘ → I Ⓞ → O Ⓤ → U	

2.

Story Book	Number of story book
Richie Rich	☆ ☆ ☆
Harry Potter	☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆
Jungle Book	☆ ☆ ☆ ☆ ☆ ☆
1 ☆ = 3 books	

Exercise- 15.1

1. D, F, H, J, L, (N)
2. C, D, E, F, G, (H)
3. Z, Y, X, W, V, (U)
4. A, D, G, J, M, (P)
5. F, G, H, I, J, (K)
6. HP, IR, JT, KV, LX, (MZ)
7. FA, GB, HC, ID, JE, (KF)
8. AV, BW, CX, DY, EZ, (FA)
9. WH, TJ, QL, MN, KP, (HR)
10. KU, KT, LS, LR, MQ, (MP)
11. 13, 24, 35, 46, 57, (68)
12. 232, 343, 454, (565)
13. 9, 11, 14, 18, 23, (29)

Exercise- 15.2

1. 3 5 [8], 2 7 [9], 4 4 [8], 10 10 (20)

2. 6 [18] 3, 5 [25] 5, 4 [12] 3, 9 (27) 3

3. 9 (3) 6, 15 (7) 8, 21 (7) 14, 10 [(4)] 6

4. (2, 20), [200] (5, 50), [500] (7, 70), [700] (8, 80) (800)

5. 100 (300) 200, 500 (700) 200, 400 (600) 200, 400 [(900)] 500

6. 2 (6) 2 2, 3 (10) 4 3, 6 (15) 3 6, 7 (21) 6 8

7. 4 (0) 4 8, 4 (6) 4 2, 5 (5) 2 2, 8 (6) 2 4

$\because\ (8+2)-4=6$

Exercise- 15.3

1. A : D, B : E, C : F, X : (A)
2. A : Z, B : Y, C : X, F : (U)
3. B : Z, E : C, T : R, O : (M)
4. 10 A : 20 B, 30 C : 40 D, 50 E : (60 F)
5. 8 : 11, 15 : 18, 3 : (6)
6. 7 : 21, 8 : 24, 3 : (9)
7. 3 : 30, 9 : 90, 1 : (10)
8. 101 : 111, 111 : 121, 505 : (515)
9. 125 : 100, 100 : 75, 25 : (0)
10. 345 : 567, 123 : 345, 567 : (789)
11. 10 : 30, 100 : 300, 1 : (3)
12. 520 : 420, 760 : 660, 110 : (10)
13. A2 : B3, C4 : D5, E6 : (F7)
14. A2 : BB3, C2 : DD3, G2 : (HH3)
15. Z2Z : Z2Z, B8S : S8B, L7 : (7L)
16. DOOR is to HOUSE as LID is to (BOX)
17. PAGE is to BOOK as WORD is to **SENTENCE**
18. ELBOW is to FINGER as KNEE is to **TOES**
19. APPLE is to fruit as POTATO is **VEGETABLE**
20. AEROPLANE is to sky as BUS is to **ROAD**
21. SEAT is to eat as SHIP is to **HIP**
22. WATCH is to HAND as RING is to **FINGER**

Exercise- 15.4

1.

–	5	7	8
4	1	3	5
2	3	5	7

2.

–	18	8	13
4	14	4	9
2	16	6	11

3.

+	12	17	49
47	59	64	96
6	18	23	55

4.

–	12	8	10
6	6	2	4
6	6	2	4

5.

+	8	7	3
12	20	19	15
9	17	16	12

6.

+	3	6	0
0	3	6	20
8	11	14	8

7.

+	6	8	2
9	15	17	11
6	12	14	8

Exercise- 15.5

1.	(c)	**2.**	(d)	**3.**	(d)	**4.**	(d)
5.	(b)	**6.**	(d)	**7.**	(c)	**8.**	(c)
9.	(c)	**10.**	(d)	**11.**	(d)	**12.**	(d)

Exercise- 15.6

A.

1. 410, 420, 430, 441, 450, 460, 470

2. 120, 140, 160, 180 , 200, 210, 240

3. 154, 253, 353, 453 , 553, 653 , 753

4. 242, 343, 442, 542 , 642, 742 , 842

5. 880, 875, 870, 865 , 860, 850

6. 221, 231, 242, 251 , 161

7. 201, 302, 403, 505, 605, 706

8. 113, 224, 335, 447, 557, 668

9. 717, 616, 516, 414 , 313

10. 110, 220, 330, 445, 550

B.

1. (d)	**2.** (e)	**3.** (a)	**4.** (c)
5. (b)	**6.** (c)	**7.** (c)	**8.** (b)

Exercise- 15.7

A.

1. (b)	**2.** (c)	**3.** (b)	**4.** (c)
5. (d)	**6.** (a)	**7.** (a)	**8.** (d)

B.

1. (b)	**2.** (c)	**3.** (d)	**4.** (a)
5. (c)	**6.** (c)	**7.** (c)	**8.** (b)

C.

1. (c)	**2.** (d)	**3.** (a)	**4.** (b)
5. (c)	**6.** (b)	**7.** (c)	**8.** (b)

Exercise- 15.8

1. Yes	**2.** No	**3.** No	**4.** No
5. Yes	**6.** Yes	**7.** Yes	**8.** Yes
9. Yes	**10.** No	**11.** No	**12.** No
13. Yes	**14.** Yes	**15.** Yes	

Notes

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