READ INDIA

Mathematics

Class III

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Chapter 1 : Revision

1. (a) Six hundred and seventy eight.
(b) One hundred and fifteen.
(c) Seven hundred and eighteen.

2. (a) 456 (b) 780 (c) 318

3. (a) 9 (b) 1 (natural number) 0 (whole number)
(c) 100

4. (a) 499 (b) 400 (c) 235 (d) 748

5. (a) 236 (b) 380 (c) 422 (d) 678

6. (a) 83, 86, 89, 92, 95
(b) 157, 167, 177, 187, 197
(c) 242, 244, 246, 248, 250

7. (a) 900 + 50 + 0 (b) 400 + 80 + 7
(c) 700 + 70 + 8 (d) 200 + 50 + 9

8. (a) 499 (b) 699 (c) 751

9. (a) 18, 32, 44, 88, 96
(b) 426, 440, 678, 900, 938
(c) 250, 310, 540, 594, 685

10. (a) 96, 78, 64, 44, 35
(b) 988, 724, 692, 572, 347
(c) 928, 829, 489, 386, 289

11. (a) 425 < 400 + 20 + 6 (426)
(b) 702 > 508
(c) 447 < 474
(d) 189 = 100 + 80 + 9 (189)
(e) 435 + 100 (535) = 535
(f) 400 + 50 + 2 > 300

12.

	Greatest No	Smallest No
(a)	654	456
(b)	971	179
(c)	630	306

13. (a) 800 (b) 50 (c) 9
(d) 70 (e) 200 (f) 900

14. (a) 600 + 30 + 7 = 637
(b) 800 + 80 + 9 = 889
(c) 300 + 70 + 9 ≠ ~~379~~
(d) 700 + 0 + 4 ≠ ~~704~~

15. (a) 98, 99, 100 (b) 433, 434, 435
(c) 500, 501, 502 (d) 744, 745, 746
(e) 524, 525, 526 (f) 668, 669, 670

16. (a)
$$\begin{array}{r} {\scriptstyle ①}\\ 507\\ +189\\ \hline 696 \end{array}$$
(b)
$$\begin{array}{r} {\scriptstyle ①}\\ 101\\ +259\\ \hline 360 \end{array}$$
(c)
$$\begin{array}{r} {\scriptstyle ①}\\ 683\\ +170\\ \hline 853 \end{array}$$
(d)
$$\begin{array}{r} {\scriptstyle ①}\\ 405\\ +489\\ \hline 894 \end{array}$$
(e)
$$\begin{array}{r} \\ 521\\ 108\\ +40\\ \hline 669 \end{array}$$
(f)
$$\begin{array}{r} {\scriptstyle ②\,①}\\ 389\\ 83\\ +76\\ \hline 548 \end{array}$$

17. (a)
$$\begin{array}{r} {\scriptstyle ⑬\,⑩}\\ 540\\ -349\\ \hline 191 \end{array}$$
(b)
$$\begin{array}{r} \\ 730\\ -220\\ \hline 510 \end{array}$$
(c)
$$\begin{array}{r} \\ 648\\ -243\\ \hline 405 \end{array}$$
(d)
$$\begin{array}{r} \\ 727\\ -606\\ \hline 121 \end{array}$$
(e)
$$\begin{array}{r} {\scriptstyle ⑨\,⑩}\\ 600\\ -523\\ \hline 77 \end{array}$$
(f)
$$\begin{array}{r} {\scriptstyle ⑩\,⑪}\\ 811\\ -419\\ \hline 392 \end{array}$$

18. (a)
$$\begin{array}{r} {\scriptstyle ①}\\ 9\\ \times 7\\ \hline 63 \end{array}$$
(b)
$$\begin{array}{r} {\scriptstyle ⑥}\\ 18\\ \times 8\\ \hline 144 \end{array}$$
(c)
$$\begin{array}{r} {\scriptstyle ③}\\ 115\\ \times 6\\ \hline 690 \end{array}$$
(d)
$$\begin{array}{r} {\scriptstyle ①\,②}\\ 125\\ \times 5\\ \hline 625 \end{array}$$

19. (a)
$$\begin{array}{r} 9\overline{)81}\,(9\\ -81\\ \hline 00 \end{array}$$
(b)
$$\begin{array}{r} 7\overline{)35}\,(5\\ -35\\ \hline 00 \end{array}$$
(c)
$$\begin{array}{r} 6\overline{)52}\,(8\\ -48\\ \hline 4 \end{array}$$
R = 4, Q = 8

(d)
$$\begin{array}{r} 9\overline{)85}\,(9\\ -81\\ \hline 4 \end{array}$$
R = 4, Q = 9

20. (a) $4 \times 5 = 20$

(b) $75 - 10 = 65$

(c) $20 \times 0 = 0$

(d) $6 \times 5 = (30) = 10 + 20$

(e) $60 \div 10 = 6$

(f) $30 - 15 = 10 + 5$

21. (a) 223, 225, 227, 229, 231, 233, 235, 237, 239, 241

(b) 641, 644, 647, 650, 653

(c) 375, 380, 385, 390, 395, 400, 405, 410, 415, 420, 425

(d) 885, 895, 905, 915, 925, 935, 945, 955, 965, 975, 985

22. (a)

No. of men	637
No. of women	225
No. of children	+ 123
Total population of village	985

23. (a)

Runs scored by India	414
Runs scored by Pakistan	–240
India won match by	174 runs

24. (a)

No. of rows of trees in garden	10
No. of trees in each row	× 8
Total no. of trees in garden	80 trees

25. (a)

	m	cm
Length of rope	49	47
Length of yellow rope	– 25	20
Length of blue rope	24	27

Ans. 24 m 27 cm

26. (a)

	kg	g
Weight of Rohit	45	000
Weight lost	– 4	350
	40	650

Weight of Rohit now 40 kg 650 g

27. (a) Bananas eaten by Rahul daily = 2

Bananas eaten by Rahul in 40 days = 40×2

= 80 bananas

28. (a) Annual profit by company = ₹6000

Profit divided in 5 Persons = 6000 ÷ 5

$$5\overline{)6000}(1200$$
$$-5$$
$$\overline{10}$$
$$-10$$
$$\overline{\times 00}$$

Money each person had = ₹ 1200

29. (a)

Suresh earned on I day	2 2 5
Suresh earned on II day	3 7 5
Suresh earned on III day	+ 1 5 0
Total cornings	₹ 7 5 0

30. (a) An insect has legs = 7

Legs of 8 insects are = 8 × 7 = 56

8 insects have 56 legs.

31. (a) Cost of one apple = ₹ 6

Apples that can be brought for

₹ 36 = 36 ÷ 6 = 6 apples

32. (a) $\frac{3}{8}$ (b) $\frac{2}{4}$ (c) $\frac{4}{5}$

33. (a) 5 : 00 (b) 6 : 30 (c) 9 : 15

34. (a) sphere (b) cone (c) cube (d) cuboid

Chapter 2 : Number Notation

Exercise 2.1

1. (a) 4205 – Four thousand two hundred and five.

(b) 3795 – Three thousand seven hundred ninety five.

(c) 5005 – Five thousand and five.

(d) 7608 – Seven thousand six hundred and eight.

(e) 8675 – Eight thousand six hundred seventy five.

(f) 2350 – Two thousand three hundred and fifty.

(g) 9985 – Nine thousand nine hundred eighty five.

(h) 6505 – Six thousand five hundred and five.

2. (a) 7905 (b) 9012 (c) 1003 (d) 2824

3. (a) 4215 (b) 2005 (c) 5455 (d) 8006

4.

	Th	H	T	O		
(a)	4	8	5	6	=	800
(b)	8	4	2	9	=	8000
(c)	9	9	7	8	=	8
(d)	3	4	8	2	=	80
(e)	8	4	5	7	=	8000
(f)	7	9	5	8	=	8
(g)	3	2	8	4	=	80
(h)	2	2	5	8	=	8

5. (a) 5 thousand 9 hundreds 0 Tens 6 ones

(b) 1 thousand 7 hundreds 0 Tens 0 ones

(c) 3 thousand 0 hundreds 3 Tens 0 ones

(d) 8 thousand 1 hundred 5 Tens 0 ones

6. (a) 5000 + 0 + 10 + 3 = 5013

(b) 7000 + 0 + 70 + 0 = 7070

(c) 9000 + 600 + 80 + 3 = 9683

(d) 1000 + 0 + 0 + 1 = 1001

7. Place Value Chart

	Thousands (Th)	**Hundreds (H)**	**Tens (T)**	**Ones (0)**
(a)	5	8	3	6
(b)	7	2	4	9
(c)	5	0	8	9
(d)	9	8	3	6

8.

	Th	H	T	O		
(a)	4	5	7	9	→	9574
(b)	3	9	9	4	→	4993
(c)	8	6	7	5	→	5678
(d)	5	7	9	8	→	8795
(e)	3	2	2	4	→	4223
(f)	2	2	7	6	→	6272

(g) 6 6 7 5 → 5676

(h) 4 8 3 5 → 5834

9. (a) 5569 + 1 = 5570, 5571, 5572, 5573.

(b) 6700 + 1 = 6701, 6702, 6703, 6704, 6705

(c) 3806 + 1 = 3807, 3808, 3809, 3810, 3811

Exercise 2.2

1.

		Place Value				Face Value
		Th	H	T	O	
(a)	72<u>3</u>6			3	0	3
(b)	<u>5</u>272	5	0	0	0	5
(c)	36<u>7</u>9			7	0	7
(d)	124<u>5</u>				5	5

2.

	Numbers	**Successor**	**Predecessor**
(a)	999	1000	998
(b)	8465	8466	8464
(c)	7239	7240	7238
(d)	5321	5322	5320

3. (a) 8000 + 0 + 10 + 7

(b) 9000 + 600 + 20 + 5

(c) 2000 + 800 + 0 + 2

(d) 3000 + 100 + 20 + 5

(e) 1000 + 900 + 50 + 6

(f) 7000 + 700 + 50 + 2

(g) 8000 + 900 + 10 + 3

(h) 4000 + 200 + 70 + 9

4. (a) 7189 (b) 5015 (c) 8909 (d) 3001

5. (a) 4265, 4267, 4269, 4271, 4273, 4275

(b) 399, 401, 403, 405, 407, 409

6. (a) 3845, 3855, 3865, 3875, 3885, 3895, 3905

(b) 7277, 7287, 7297, 7307, 7317, 7327, 7337, 7347.

7. (a) 4933, 5033, 5133, 5233, 5333, 5433, 5533, 5633

(b) 5801, 5901, 6001, 6101, 6201, 6301

8. (a) 4083, 4085, 4087 + 2 = 4089, 4091, 4093, 4095
(b) 9321, 9311 – 10 = 9301, 9291, 9281, 9271, 9261
(c) 8203, 8201 – 2 = 8199, 8197, 8195, 8193, 8191
(d) 8501, 8401 – 100 = 8301, 8201, 8101, 8001, 7901

9. (a) 8 (b) 5000 (c) 10 (d) 0
(e) 0 (f) 0

Exercise 2.3

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

2. (a) 1254, 3256, 5736, 6732, 7325
(b) 1989, 2354, 3398, 5932, 7654
(c) 3986, 4537, 5576, 6675, 8984
(d) 2865, 5423, 7345, 8367, 9835

3. (a) 9875, 8265, 6835, 3675, 2375
(b) 8675, 7236, 6734, 5489, 4567
(c) 8936, 6789, 5675, 4356, 3287
(d) 8385, 8375, 8365, 8325, 8315

4. (b) 6521 (c) 3925 (d) 6521

5. (b) 1003 (c) 3185 (d) 5129

6. (a) 3057 (b) 1589 (c) 5677 (d) 3068

7. (a) 8410 (b) 9810 (c) 9530 (d) 8540

8. 590, 950, 905

9. 3578, 5783, 7835, 8357

10.
$$\begin{array}{r} 999 \\ +\ 1 \\ \hline 1000 \end{array}$$

Yes, it is the successor of 999 and smallest number of four digits.

Multiple Choice Questions (MCQ)

1. (c) 7000 2. (c) 4506 3. (a) 0
4. (d) 27 (7+ 9 + 11)

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1. (a) < (b) < (c) < (d) >
2. (a) 8644, 8646 (b) 6848, 6850
(c) 8299, 8301

3.	**Smallest Number**	**Greatest Number**
(a)	3089	9830
(b)	9654	4569
(c)	1588	8851

4. (a) 999 (b) 9998

5. (a) 8517, 3825, 675, 486 (b) 9356, 8879, 8654, 8345

Chapter 3 : Roman Numerals

Exercise 3.1

1. (a) XVI = 10 + 5 + 1 = 16
(b) XXX = 10 + 10 + 10 = 30
(c) XXXVII = 10 + 10 + 10 + 5 + 1 + 1 = 37
(d) XXIX = 10 + 10 + (10 – 1) = 29
(e) XVII = 10 + 5 + 1 + 1 = 17
(f) XXII = 10 + 10 + 1 + 1 = 22
(g) XXXIV = 10 + 10 + 10 + (5 – 1) = 34
(h) XIX = 10 + (10 – 1) = 19

2. (a) 9 = (10 – 1) = IX
(b) 15 = (10 + 5) = XV
(c) 24 = (10 + 10 + (5 – 1) = XXIV
(d) 28 = (10 + 10 + 5 + 1 + 1 + 1 = XXVIII
(e) 32 = (10 + 10 + 10 + 1 + 1) = XXXII
(f) 29 = (10 + 10 + (10 – 1) = XXIX
(g) 39 = (10 + 10 + 10 + (10 – 1) = XXXIX
(h) 37 = (10 + 10 + 10 + 5 + 1 + 1) = XXXVII

3. (a) XIX (19) $\boxed{>}$ 18
(b) XXV (25) $\boxed{<}$ 35
(c) XI (11) $\boxed{>}$ 9
(d) XXIX (29) $\boxed{=}$ 29
(e) XVII (17) $\boxed{<}$ 18
(f) XXII (22) $\boxed{=}$ 22
(g) XXXIX (39) $\boxed{>}$ 38
(h) VIII (8) $\boxed{<}$ 9

4. 1 – d, 2 – e, 3 – a,
4 – c, 5 – b

5. (a) 10 + 5 + 1 = XVI

(b) 10 + 10 + 5 = XXV

(c) 10 + 10 + 10 + 1 + 1 + 1 = XXXIII

(d) 10 + 1 = XI

(e) 10 + 10 + 5 + 1 + 1 + 1 = XXVIII

6. (a) 36 (b) 13 (c) 29

(d) 17 (e) 8

7. (a) XI + IX = 11 + 9 = 20

10 + 10 = XX

(b) VI + VIII = 6 + 8 = 14

10 + (5 – 1) = XIV

(c) IV + XVI = 4 + 16 = 20

10 + 10 = XX

(d) XX + X = 20 + 10 = 30

10 + 10 + 10 = XXX

(e) XIX + XII = 19 + 12 = 31

10 + 10 + 10 + 1 = XXXI

(f) XII – VII = 12 – 7 = 5 = V

(g) XIX – IX = 19 – 9 = 10 = X

(h) XXII – XIX = 22 – 19 = 3 = III

(i) XXX – XXIII = 30 – 23 = 7 5 + 1 + 1 = VII

(f) XXXII – XXIX = 32 – 29 = 3 = III

Chapter 4 : Addition

Exercise 4.1

1. (a)

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

(b)

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

(c)

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

(d)

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

2. (a)

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

(b)

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

(c)

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

(d)

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

3. (a)

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

(b)

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

(c)

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

(d)

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

(e)

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

(f)

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

4. (a)

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

(b)

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

(c)

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

(d)

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

(e)

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

(f)

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

Exercise 4.2

1. (a)

Th	H	T	O
①		①	
8	6	4	5
+ 7	8	3	7
16	4	8	2

(b)

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

(c)

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

(d)

Th	H	T	O
②	①	①	
6	8	9	4
+ 3	4	9	8
10	3	9	2

2. (a)

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

(b)

Th	H	T	O
①	①	①	
5	6	8	4
	8	5	4
+ 4	7	7	6
11	2	6	4

(c)

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

(d)

Th	H	T	O
8	6	5	2
2	1	7	5
+	3	2	8
11	1	5	5

3. (a)

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

(b)

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

(c)

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

1. No. of male teachers in Delhi — 5467
No. of female teachers in Delhi — +3528
Total number of teachers in Delhi — 8995
Total teachers = 8995

2. Students in Primary class — 4026
Students in middle class — 2835
Students in senior class — +3453
Total strength of school — 10314
Total students = 10314

3. No. of men in town — 2549
No. of women in town — 3265
No. of children in town — +2445
Total population of town — 8059

4. Cake made on Ist day — 2365
Cake made on II day — 3405
Cake made on III day — +2406
Cakes made in three days — 8176 cakes

5. Oranges in Ist farm — 4205
Oranges in II farm — 3207
Oranges in III farm — +2470
Total no. of oranges — 9882

6. Cost of bicycle ₹ 6 2 ③ 8
Cost of television + ₹ 2 8 3 6
Total money spend by Shipra ₹ 9 0 7 4

7. Persons visited zoo on Monday 2 4 5 6
Persons visited zoo on Tuesday 4 3 2 6
Persons visited zoo on Wednesday + 2 5 9 2
Total numbers of persons visited zoo. 9 3 7 4

8. No. of Rice bags in store ① ② ① 3 5 6 5
No. of wheat bags in store 2 3 7 2
No. of sugar bags in store + 2 5 8 5
Total number of bags in store 8 5 2 2 bags

9. Number 8 5 2 3
Exceeds by + 1 2 3 6
9 7 5 9

10. Greatest three digit number 9 9 9
Smallest four digit number + 1 0 0 0
Sum of numbers 1 9 9 9

1. (a) 327 + 420 = 420 + 327
(b) 5367 + 7174 = 7174 + 5367
(c) (237 + 423) + 2253 = 237 + (423 + 2253)
(d) 3679 + (237 + 4235) = (3679 + 237) + 4235
(e) (7426 + 2354) + 2542 = 7426 + (2354 + 2542)
(f) 8278 + 0 = 8278
(g) 5372
(h) 0 + 4599 = 4599
(i) 0 + 7327 = 7327

2. (a) 32 + 45 + 98 + 71
(32 + 45) + (98 + 71)
77 + 169 = 246

(b) 82 + 35 + 42 + 36

(82 + 35) + (42 + 36)

117 + 78 = 195

Chapter 5 : Subtraction

Exercise 5.1

1. (a)
$$\begin{array}{r} 8564 \\ -\,5121 \\ \hline 3443 \end{array}$$
(b)
$$\begin{array}{r} 9872 \\ -\,3240 \\ \hline 6632 \end{array}$$
(c)
$$\begin{array}{r} 8706 \\ -\,4202 \\ \hline 4504 \end{array}$$
(d)
$$\begin{array}{r} 5800 \\ -\,2300 \\ \hline 3500 \end{array}$$
(e)
$$\begin{array}{r} 6535 \\ -\,2412 \\ \hline 4123 \end{array}$$
(f)
$$\begin{array}{r} 5879 \\ -\,5235 \\ \hline 0644 \end{array}$$
(g)
$$\begin{array}{r} 9735 \\ -\,7114 \\ \hline 2621 \end{array}$$
(h)
$$\begin{array}{r} 5468 \\ -\,2348 \\ \hline 3120 \end{array}$$

2. (a)
$$\begin{array}{r} 5467 \\ -\,1246 \\ \hline 4221 \end{array}$$
(b)
$$\begin{array}{r} 4798 \\ -\,2545 \\ \hline 2253 \end{array}$$
(c)
$$\begin{array}{r} 8979 \\ -\,7259 \\ \hline 1720 \end{array}$$
(d)
$$\begin{array}{r} 8986 \\ -\,4564 \\ \hline 4422 \end{array}$$
(e)
$$\begin{array}{r} 3598 \\ -\,3276 \\ \hline 0322 \end{array}$$
(f)
$$\begin{array}{r} 9999 \\ -\,4798 \\ \hline 5201 \end{array}$$

Exercise 5.2

1. (a)
$$\begin{array}{r} 8245 \\ -\,3764 \\ \hline 4481 \end{array}$$
(b)
$$\begin{array}{r} 5675 \\ -\,3879 \\ \hline 1796 \end{array}$$
(c)
$$\begin{array}{r} 8345 \\ -\,6746 \\ \hline 1599 \end{array}$$
(d)
$$\begin{array}{r} 9945 \\ -\,3294 \\ \hline 6651 \end{array}$$
(e)
$$\begin{array}{r} 4436 \\ -\,2758 \\ \hline 1678 \end{array}$$
(f)
$$\begin{array}{r} 5001 \\ -\,1325 \\ \hline 3676 \end{array}$$

2. (a)
$$\begin{array}{r} 4786 \\ -\,3995 \\ \hline 791 \end{array}$$
$$\begin{array}{r} 791 \\ +\,3995 \\ \hline 4786 \end{array}$$
(b)
$$\begin{array}{r} 8450 \\ +\,4999 \\ \hline 3451 \end{array}$$
$$\begin{array}{r} 3451 \\ +\,4999 \\ \hline 8450 \end{array}$$

(c) 6748 − 2359 = 4389 ; 4389 + 2359 = 6748

(d) 9235 + 4896 = 4339 ; 4339 + 4896 = 9235

(e) 7458 − 3296 = 4162 ; 4162 + 3296 = 7458

(f) 8888 − 4999 = 3889 ; 3889 + 4999 = 8888

3. (a) 6000 − 4185 = 1815

(b) 6050 − 3249 = 2801

(c) 8000 − 4365 = 3635

(d) 7251 − 1435 = 5816

(e) 9111 − 8845 = 266

(f) 8055 − 3068 = 4987

4. (a) 5270 − 1783 = 3487

(b) 8162 − 4477 = 3685

(c) 6245 − 2687 = 3558

(d) 7356 − 2374 = 4982

(e) 6251 − 3365 = 2886

(f) 5261 − 2364 = 2897

Exercise 5.3

1. 8246 − 3067 = 5179 is the number.

2. 6314 − 3579 = 2735 is the number.

3. Total students in school 3890

No. of girls in school − 2237

Ans. No. of boys in school 1653

4. No. of persons visited zoo 4236

No. of adult persons − 2345

Ans. No. of children visited zoo 1891

5. No. of candidates appeared in exam 7845
No. of passed candidates −4235
Ans. No. of failed candidates 3610

6. Total money in Rinku bank a/c 9437
Money withdrawn by him −7325
Ans. Money left in his a/c 2112

7. Total No. of bats in godown 6725
No. of bats sold out −3467
Ans. No. of bats left in godown 3258

8. Cost of both motorcycle and cycle 8450
Cost of motorcyle −6450
Ans. Cost of the cycle 2000

9. Total no. of people in town 9436
No. of people casted votes −4275
Ans. No. of people don't cast votes 4961

10. Total no. of cakes with baker 450
No. of cakes sold −325
Ans. No. of cares left with baker 125

Multiple Choice Questions

1.
$$\begin{array}{r} 7000 \\ -4568 \\ \hline 2432 \end{array}$$
Ans. c

2.
$$\begin{array}{r} 800 \\ -401 \\ \hline 399 \end{array}$$
Ans. b

3. 800 – 310 = 490 Ans. a

4. 42 – 19 = 23; Ans b

5. 8514 – 855 = 7659 Ans. (c)

Mental Math-

1. (a)
$$\begin{array}{r} 6074 \\ -2598 \\ \hline 3476 \end{array}$$
(b)
$$\begin{array}{r} 9040 \\ -2869 \\ \hline 6171 \end{array}$$
(c)
$$\begin{array}{r} 5007 \\ -3858 \\ \hline 1149 \end{array}$$
(d)
$$\begin{array}{r} 5467 \\ -3221 \\ \hline 2246 \end{array}$$

2. (a) 7459 – 0 = 7459 (b) 200 – 0 = 200

(c) 8365 – 0 = 8365 (d) 8573 – 8572 = 1

(e) 5000 – 1 = 4999 (f) 7569 – 7569 = 0

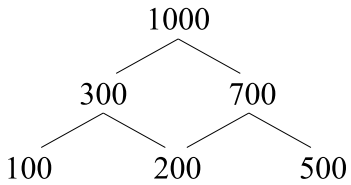
3. (a) 144 – 122 = 22 (b) 190 – 20 = 170

(c) 400 – 99 = 301 (d) 389 – 178 = 211

(e) 30 + 20 = 70 – 20 = (50)

(f) 40 + 100 = (140) = 150 – 10 = (140)

Maths Lab Activity



Chapter 6 : Multiplication

Exercise 6.1

1. (a) 5 × 6 = 6 × $\boxed{5}$

(b) 7 × $\boxed{2}$ = 2 × 7

(c) 8 × $\boxed{1}$ = 8

(d) $\boxed{4}$ × 8 = 4 × 8

(e) 6 × 1 = $\boxed{6}$

(f) 7 × $\boxed{0}$ = 0

2. (a) 4 × 8 = 32

(b) 9 × 9 = 81

(c) 6 × 8 = 48

(d) 7 × 4 = 28

(e) 3 × 7 = 21

(f) 8 × 8 = 64

3. No. of days in a week = 7

No. of days in 6 weeks

$$\begin{array}{r} 7 \\ \times\ 6 \\ \hline 42 \end{array}$$ days

4. No. of students in a class = 9

No. of students in 7 classes = 7 × 9 = 63 students

5. No. of trees in one row = 8

No. of trees in 5 rows = 8 × 5 = 40 trees

6. No. of chocolates in a box = 5

No. of chocolates in 7 boxes = 5 × 7 = 35 chocolates

Exercise 6.2

1. (a) $\begin{array}{r} 23 \\ \times\ 3 \\ \hline 69 \end{array}$ (b) $\begin{array}{r} 34 \\ \times\ 2 \\ \hline 68 \end{array}$ (c) $\begin{array}{r} 24 \\ \times\ 2 \\ \hline 48 \end{array}$

(d) $\begin{array}{r} 59 \\ \times\ 1 \\ \hline 59 \end{array}$ (e) $\begin{array}{r} 87 \\ \times\ 1 \\ \hline 87 \end{array}$ (f) $\begin{array}{r} 30 \\ \times\ 3 \\ \hline 90 \end{array}$

Exercise 6.3

1. (a) $\begin{array}{r} 23 \\ \times\ 4 \\ \hline 92 \end{array}$ (b) $\begin{array}{r} 29 \\ \times\ 3 \\ \hline 87 \end{array}$ (c) $\begin{array}{r} 38 \\ \times\ 2 \\ \hline 76 \end{array}$

(d) $\begin{array}{r} 12 \\ \times\ 8 \\ \hline 96 \end{array}$ (e) $\begin{array}{r} 17 \\ \times\ 5 \\ \hline 85 \end{array}$ (f) $\begin{array}{r} 13 \\ \times\ 7 \\ \hline 91 \end{array}$

2. (a) $\begin{array}{r} 26 \\ \times\ 6 \\ \hline 156 \end{array}$ (b) $\begin{array}{r} 48 \\ \times\ 8 \\ \hline 384 \end{array}$ (c) $\begin{array}{r} 54 \\ \times\ 7 \\ \hline 378 \end{array}$

(d) $\begin{array}{r} 58 \\ \times\ 4 \\ \hline 232 \end{array}$ (e) $\begin{array}{r} 59 \\ \times\ 7 \\ \hline 413 \end{array}$ (f) $\begin{array}{r} 69 \\ \times\ 9 \\ \hline 621 \end{array}$

Exercise 6.4

(a) 45×20
45×2 tens
90 tens
$= 900$

(b) 26×30
26×3 tens
78 tens
$= 780$

(c) 34×40
34×4 tens
136 tens
$= 1360$

(d) 100×50
100×5 tens
500 tens
$= 5000$

(e) 70×60
7 tens $\times$ 6 tens
42 hundreds
= 4200

(f) 86×70
86×7 tens
602 tens
= 6020

(g) 18×90
18×9 tens
162 tens
= 1620

(h) 20×100
2 tens $\times$ 1 hundreds
2 thousands
= 2000

Exercise 6.5

1. (a)
$$\begin{array}{r} 27 \\ \times\ 18 \\ \hline 216 \\ 27\times \\ \hline 486 \end{array}$$

(b)
$$\begin{array}{r} 69 \\ \times\ 45 \\ \hline 345 \\ 276\times \\ \hline 3105 \end{array}$$

(c)
$$\begin{array}{r} 36 \\ \times\ 21 \\ \hline 36 \\ 72\times \\ \hline 756 \end{array}$$

(d)
$$\begin{array}{r} 78 \\ \times\ 44 \\ \hline 312 \\ 312\times \\ \hline 3432 \end{array}$$

(e)
$$\begin{array}{r} 63 \\ \times\ 12 \\ \hline 126 \\ 63\times \\ \hline 756 \end{array}$$

(f)
$$\begin{array}{r} 45 \\ \times\ 34 \\ \hline 180 \\ 135\times \\ \hline 1530 \end{array}$$

(g)
$$\begin{array}{r} 55 \\ \times\ 11 \\ \hline 55 \\ 55\times \\ \hline 605 \end{array}$$

(h)
$$\begin{array}{r} 94 \\ \times\ 39 \\ \hline 846 \\ 282\times \\ \hline 3666 \end{array}$$

(i)
$$\begin{array}{r} 99 \\ \times\ 22 \\ \hline 198 \\ 198\times \\ \hline 2178 \end{array}$$

(j)
$$\begin{array}{r} 214 \\ \times\ 54 \\ \hline 856 \\ 1070\times \\ \hline 11556 \end{array}$$

(k)
$$\begin{array}{r} 364 \\ \times\ 19 \\ \hline 3276 \\ 364\times \\ \hline 6916 \end{array}$$

(l)
$$\begin{array}{r} 473 \\ \times\ 23 \\ \hline 1419 \\ 946\times \\ \hline 10879 \end{array}$$

Exercise 6.6

1. No. of chalk sticks in one box
No. of chalk sticks in 54 boxes

```
  54
× 54
-----
 216
270 ×
-----
2916
```

2. Passengers in one bus
Passengers in 12 buses

```
  60
× 12
-----
 120
 60 ×
-----
 720
```

Passengers

3. No. of coaches in a train = 27
Seats in each coach = 123
No. of people that can be
Seated in train = 27 × 123 = 3321 people

4. No. of balloons in a packet
No. of of balloons in 24 packets

```
  147
× 24
-----
 588
294 ×
-----
3528
```

Balloons

5. No. of clothes made by machine in 1 day = 300
No. of clothes made in 30 days =

```
 300
× 30
-----
9000
```

Clothes

6. Weight of rice in 1 bag
Weight of rice in 39 bags

```
  900
× 39
-----
 8100
2700 ×
-----
35100
```

Ans - 35100 kg rice

7. Capacity of a fuel tank
Capacity of 59 tanks

```
  500
× 59
-----
 4500
2500 ×
-----
29500
```

Capacity of fuel - litres

8. Capacity of a fridge
Capacity of 85 fridge

$$\begin{array}{r} 195 \\ \times\ 85 \\ \hline 975 \\ 1560\times \\ \hline 16575 \end{array}$$

Litres

9. Newspapers delievered by Ramu in day =
Newspapers delievered by him in 28 days =

$$\begin{array}{r} 208 \\ \times\ 28 \\ \hline 1664 \\ 416\times \\ \hline 5824 \end{array}$$

News papers

10. No. of words typed by Sidham in 1 min
No. of words typed in 58 min.

$$\begin{array}{r} 65 \\ \times\ 58 \\ \hline 520 \\ 325\times \\ \hline 3770 \end{array}$$

Words

MCQ's

1. (b) 1000 **2.** $10 \times 9 = 90$ Ans = (c) **3.** (c) product

4.
$$\begin{array}{r} 368 \\ \times\ 17 \\ \hline 2576 \\ 368\times \\ \hline 6256 \end{array}$$
Ans - (b)

Mental Maths

1. (a) $6 \times 8 = 56$ (b) $8 \times 4 = 32$
(c) $9 \times 8 = 72$ (d) $15 \times 6 = 90$
(e) $15 \times 16 = 240$ (f) $17 \times 10 = 170$

2. (a) $8 \times 9 \boxed{=} 9 \times 8$
(b) $7 \times 6 = 42 \boxed{>} 6 \times 3 = 18$
(c) $3 \times 10 = 30 \boxed{=} 2 \times 15 = 30$
(d) $14 \times 2 = 28 \boxed{<} 7 \times 5 = 35$

(e) $9 \times 15 = 135 \boxed{>} 16 \times 8 = 128$

(f) $17 \times 7 = 119 \boxed{>} 26 \times 2 = 52$

3. (a) $5 \times \boxed{8} = 40$ (b) $\boxed{8} \times 9 = 72$

(c) $12 \times \boxed{7} = 84$ (d) $15 \times \boxed{16} = 240$

(e) $\boxed{20} \times 12 = 240$ (f) $\boxed{25} \times 9 = 225$

4. (a) $50 \times 7 = 350$ (b) $8 \times 40 = 320$

(c) $8 \times 20 = 160$ (d) $16 \times 20 = 320$

(e) $13 \times 15 = 195$ (f) $15 \times 12 = 180$

5. 1.

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

2.

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

3.

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

Chapter 7 : Division

Exercise 7.1

1. (a) $16 \div 4$

$16 - \underline{4} = 12 - \underline{4} = 8 - \underline{4} = 4 - \underline{4} = 0$

4 has been subtracted 4 times

$\therefore \quad 16 \div 4 = 4$

(b) $30 \div 5$

$30 - 5 = 25 - 5 = 20 - 5 = 15 - 5 = 10 - 5 = 5$

$\therefore \quad 5 - 5 = 0$

5 has been subtracted 6 times

$30 \div 5 = 6$

(c) $21 \div 3$

$21 - \underline{3} = 18 - \underline{3} = 15 - \underline{3} = 12 - \underline{3} = 9 - \underline{3} = 6$

$6 - \underline{3} = 3 - \underline{3} = 0$

3 is subtracted 7 times

$\therefore \quad 21 \div 3 = 7$

(d) $18 \div 6$

$18 - 6 = 12 - 6 = 6 - 6 = 0$

6 is subtracted 3 times

$\therefore$ $18 \div 6 = 3$

(e) $24 \div 3$

$24 - \underline{3} = 21 - \underline{3} = 18 - \underline{3} = 15 - \underline{3} = 12 - \underline{3} = 9$

$9 - \underline{3} = 6 - \underline{3} = 3 - \underline{3} = 0$

3 is subtracted 8 times

$\therefore$ $24 \div 3 = 8$

(f) $9 \div 3$

$9 - \underline{3} = 6 - \underline{3} = 3 - \underline{3} = 0$

3 is subtracted 3 times

$\therefore$ $9 \div 3 = 3$

(g) $18 \div 2$

$18 - \underline{2} = 16 - \underline{2} = 14 - \underline{2} = 12 - \underline{2} = 10 - \underline{2}$

$8 - \underline{2} = 6 = 6 - \underline{2} = 4 - \underline{2} = 2 - \underline{2} = 0$

2 is subtracted 9 times

$\therefore$ $18 \div 2 = 9$

(h) $21 \div 7$

$21 - \underline{7} = 14 - \underline{7} = 7 - \underline{7} = 0$

7 is subtracted 3 times

$\therefore$ $21 \div 7 = 3$

2. (a) 10 flowers (b) 5 flowers in each group

(c) 2 fives (d) $10 \div 5 = 2$

3.

	Dividend	**Divisor**	**Quotient**
(a)	14	7	2
(b)	9	3	3
(c)	12	2	6
(d)	16	4	4
(e)	35	7	5
(f)	64	8	8
(g)	45	9	5
(h)	40	10	4

4. (a) $10 \div 2 = 5$ (b) $15 \div 3 = 5$

Exercise 7.2

1. (a) $9 \times 4 = 36$

$36 \div 9 = 4$; $36 \div 4 = 9$

(b) $7 \times 8 = 56$

$56 \div 7 = 8$; $56 \div 8 = 7$

(c) $8 \times 2 = 16$

$16 \div 8 = 2$; $16 \div 2 = 8$

(d) $5 \times 6 = 30$

$30 \div 5 = 6$; $30 \div 6 = 5$

(e) $12 \times 3 = 36$

$36 \div 12 = 3$; $36 \div 3 = 12$

(f) $10 \times 5 = 50$

$50 \div 10 = 5$; $50 \div 5 = 10$

2. (a) $21 \div 3 = 7$, $3 \times 7 = 21$ (b) $40 \div 5 = 8$, $5 \times 8 = 40$ (c) $9 \div 3 = 3$, $3 \times 3 = 9$

(d) $64 \div 8 = 8$, $8 \times 8 = 64$ (e) $56 \div 8 = 7$, $7 \times 8 = 56$ (f) $36 \div 12 = 3$, $12 \times 3 = 36$

Exercise 7.3

1. (a) $0 \div 6 = 0$ (b) $40 \div 1 = 40$

(c) $19 \div 19 = 1$ (d) $7 \div 7 = 1$

(e) $28 \div 28 = 1$ (f) $30 \div 1 = 30$

(g) $0 \div 4 = 0$ (h) $0 \div 8 = 0$

(i) $35 \div 35 = 1$ (j) $0 \div 0 = 0$

Exercise 7.4

1. (a) $27 \div 3$

$3\overline{)27}(9$

-27

00

$Q = 9$

(b) $2\overline{)42}(21$

-4

02

2

$\times$

$Q = 21$

(c) $3\overline{)93}(31$
-9
03
-3
$\times$ Q = 31

(d) $4\overline{)44}(11$
-4
04
-4
$\times$ Q = 11

(e) $5\overline{)55}(11$
-5
05
-5
$\times$ Q = 11

(f) $6\overline{)36}(6$
-36
0 Q = 6

(g) $2\overline{)604}(302$
-6
004
-4
$\times$ Q = 302

(h) $4\overline{)808}(202$
-8
008
-8
$\times$ Q = 202

(i) $6\overline{)666}(111$
-6
06
-6
06
-6
0 Q = 111

(j) $7\overline{)147}(21$
-14
07
-7
$\times$ Q = 21

Exercise 7.5

1. (a) $5\overline{)75}(15$
-5
25
-25
00
Q = 15

(b) $6\overline{)84}(14$
-6
24
-24
00
Q = 14

(c) $2\overline{)76}\,(38$
-6
16
-16
00
Q = 38

(d) $7\overline{)805}\,(115$
-7
10
-7
35
-35
0
Q = 115

(e) $5\overline{)630}\,(126$
-5
13
-10
30
-30
0
Q = 126

(f) $4\overline{)416}\,(104$
-4
16
-16
00
Q = 104

(g) $3\overline{)432}\,(144$
-3
13
-12
12
-12
0
Q = 144

(h) $9\overline{)711}\,(79$
-63
81
-81
00
Q = 79

(i) $4\overline{)756}\,(189$
-4
35
-32
36
-36
0
Q = 189

(i) $4\overline{)9056}\,(2264$
-8
10
-8
25
-24
16
16
00
Q = 2264

Exercise 7.6

1. (a) $9\overline{)615}\,(68$
-54
75
-72
3
Q = 68, R = 3

(b) $7\overline{)453}\,(64$
-42
33
-28
5
Q = 64, R = 5

(c) $3\overline{)448}(149$
$-3\downarrow$
14
$-12\downarrow$
28
-27
01
Q = 149, R = 1

(d) $6\overline{)4756}(792$
$-42\downarrow$
055
$-054\downarrow$
016
-012
4
Q = 792, R = 4

(e) $7\overline{)7254}(1036$
$-7\downarrow\downarrow$
025
$-021\downarrow$
044
-042
02
Q = 1036, R = 2

(f) $10\overline{)1045}(104$
$-10\downarrow\downarrow$
0045
-0040
005
Q = 104, R = 5

(f) $8\overline{)3267}(408$
$-32\downarrow\downarrow$
0067
-0064
003
Q = 408, R = 3

(h) $4\overline{)7175}(1793$
$-4\downarrow\downarrow$
31
$-28\downarrow$
37
$-36\downarrow$
15
12
03
Q = 1793 R = 3

(i) $10\overline{)3198}(319$
$-30\downarrow$
19
$-10\downarrow$
98
-90
08
Q = 319, R = 8

(j) $10\overline{)4265}(426$
$-40\downarrow$
026
$-020\downarrow$
065
-060
05
Q = 426, R = 5

2. (a) $4\overline{)45}(11$
-4
05
-04
1
$11 \times 4 + 3$
$= 45$

(b) $8\overline{)756}(94$
-72
36
-32
4
$94 \times 8 + 4$
$= 756$

(c) $10\overline{)2067}(206$
-20
0067
-0060
7
$206 \times 10 + 7$
$= 2067$

(d) $7\overline{)729}(104$
-7
029
-028
1
$104 \times 7 \ 1 = 729$

(e) $6\overline{)334}(55$
-30
34
-30
4
$55 \times 6 + 4 = 334$

(f) $2\overline{)2371}(1185$
-2
03
-02
17
-16
11
10
01
$1185 \times 2 + 1 = 2371$

(g) $4\overline{)4435}(1108$
-4
04
-04
035
-032
3
$1108 \times 4 + 3 = 4435$

(h) $5\overline{)2936}(587$
-25
43
-40
36
-35
1
$587 \times 5 + 1 = 2936$

(i) $10\overline{)7248}(724$
-70
24
-20
48
-40
8
$724 \times 10 + 8 = 7248$

(j) $10\overline{)3265}(326$
-30
26
-20
65
-60
5
$326 \times 10 + 5 = 3265$

3. (a) Q = 4, R = 5
(b) Q = 3, R = 2
(c) Q = 12, R = 9
(d) Q = 24, R = 5
(e) Q = 35, R = 6
(f) Q = 235, R = 4
(g) Q = 327, R = 2
(h) Q = 725, R = 8
(i) Q = 145, R = 2
(j) Q = 865, R = 5

Exercise 7.7

1. Trees planted by 5 persons = 225
Trees planted by 1 person = 225 ÷ 5

$5\overline{)225}(45$
-20
25
-25
00

Ans = 45 Trees

2. $7\overline{)686}(98$

-63

56

-56

00 The other no. is 98

3. No. of oranges in 7 carts = 553

No. of oranges in 1 cast = 553 ÷ 7

$7\overline{)553}(79$

-49

63

-63

00

Ans. 79 boxes

4. $6\overline{)366}(61$

-36

006

-006

00

Ans. 61 times

5. Total money to buy pencil box = ₹ 800

Cost of one pencil box = ₹ 10

No. of Pencil box that can be bought = 800 ÷ 10

Ans. 80 Pencil boxes

6. Total children in class = 53

No. of children in 1 group = 8

Total groups = 53 ÷ 8

$8\overline{)53}(6$

-48

5

Ans. 6 groups,

5 children will left ones

7. No. of eggs produced in 1 week = 2562

No. of eggs produced in 1 day = 2562 ÷ 7

$7\overline{)2562}(366$

-21

46

-42

42

-42

0

Ans. 366 eggs

8. Total no. of trees to be planted = 840
Trees in each row = 9
No. of rows formed = 840 ÷ 9

$$\begin{array}{r} 9\overline{)840}(93 \\ -81 \\ \hline 30 \\ -27 \\ \hline 03 \end{array}$$

Ans. 93 rows, 3 trees left over

9. No. of pages in 10 notebooks = 540
No. of pages in 1 notebook = 540 ÷ 10 = 54 pages

10.
$$\begin{array}{r} 6\overline{)1224}(204 \\ -12 \\ \hline 0024 \\ -0024 \\ \hline 00 \end{array}$$

Ans. The other number is 204

MCQs

1. (b) 1

2. (b)
$$\begin{array}{r} 4\overline{)752}(188 \\ -4 \\ \hline 35 \\ -32 \\ \hline 32 \\ -32 \\ \hline 0 \end{array}$$

3. (a) 750

4. (c)
$$\begin{array}{r} 7\overline{)98}(14 \\ -7 \\ \hline 28 \\ -28 \\ \hline \times \end{array}$$

14 weeks

Mental Math

1. (a) 8 (7 × 8) (b) 5 (9 × 5) (c) 4 (6 × 4)
(d) 8 (8 × 8) (e) 5 6 × 5) (f) 7 (7 × 7)

2. (a) 9 > 6 (b) 8 = 8 (c) 7 = 7 (d) 8 > 6

3. (a)
$$\begin{array}{r} 4\overline{)388}(97 \\ -36 \\ \hline 28 \\ -28 \\ \hline \times \end{array}$$

Q = 97, R = 0

(b)
$$\begin{array}{r} 5\overline{)847}(169 \\ -5 \\ \hline 34 \\ -30 \\ \hline 47 \\ -45 \\ \hline 2 \end{array}$$

Q = 169, R = 2

(c)
$$\begin{array}{r} 6\overline{)689}(114 \\ -6 \\ \hline 8 \\ -6 \\ \hline 29 \\ -24 \\ \hline 5 \end{array}$$

Q = 114, R = 5

(d) $8\overline{)4035}(54$
-40
0035
-0032
003
Q = 54, R = 3

(e) $9\overline{)5674}(630$
-54
0027
-0027
004
Q = 630, R = 4

(f) $10\overline{)7348}(734$
-70
34
-30
48
-40
8
Q = 734, R = 8

4. (a) $5\overline{)815}\ (163$
-5
31
-30
15
-15
$\times$

(b) $9\overline{)5598}(622$
-54
19
-18
18
-18
$\times$

(c) $9\overline{)621}(69$
-54
81
-81
00

Chapter 8 : Fractions

Exercise 8.1

1. (a), (b), (c), (e)

2. Do it yourself

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

4. (a) $\frac{()}{}$ (b) $\frac{2}{7}$ (c) $\frac{4}{9}$ (d) $\frac{1}{10}$
(e) $\frac{12}{17}$ (f) $\frac{8}{11}$ (g) $\frac{1}{5}$ (h) $\frac{6}{13}$

5. (b) three - eighths (c) eight - fifteenths
(d) five - nineteenths (e) seven - sixteenths
(f) two - third (g) four - twenty oneths
(h) three - twelfths

6. (a) Numerator = 1, Denominator = 7
(b) Numerator = 3, Denominator = 6
(c) Numerator = 7, Denominator = 8

(d) Numerator = 4, Denominator = 15

(e) Numerator = 2, Denominator = 17

(f) Numerator = 4, Denominator = 9

(g) Numerator = 8, Denominator = 13

(h) Numerator = 17, Denominator = 25

7. (a) $\frac{5}{7}$ (b) $\frac{7}{9}$ (c) $\frac{6}{15}$ (d) $\frac{12}{20}$

(e) $\frac{4}{18}$ (f) $\frac{3}{24}$ (g) $\frac{14}{29}$ (h) $\frac{17}{33}$

8. (a) Denominator (b) 3 (c) 12

(d) Numerator (e) Denominator

(f) 36 (g) Numerator, Denominator

(h) Numerator, Denominator

Exercise 8.2

1. (a) $\frac{1}{5}$ (b) $\frac{5}{9}$ (c) $\frac{5}{11}$ (d) $\frac{11}{16}$

(e) $\frac{8}{11}$ (f) $\frac{3}{5}$ (g) $\frac{1}{5}$ (h) $\frac{1}{18}$

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

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

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

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

4. (a) $\frac{2 \times 4}{5 \times 4} = \frac{8}{20}$; $\frac{2 \times 5}{5 \times 5} = \frac{10}{25}$; $\frac{2 \times 6}{5 \times 6} = \frac{12}{30}$

(b) $\frac{4 \times 4}{8 \times 4} = \frac{16}{32}$; $\frac{4 \times 5}{8 \times 5} = \frac{20}{40}$; $\frac{4 \times 6}{8 \times 6} = \frac{24}{48}$

(c) $\frac{7 \times 4}{9 \times 4} = \frac{28}{36}$; $\frac{7 \times 5}{9 \times 5} = \frac{35}{45}$; $\frac{7 \times 6}{9 \times 6} = \frac{42}{54}$

(d) $\frac{5 \times 4}{6 \times 4} = \frac{20}{24}$; $\frac{5 \times 5}{6 \times 5} = \frac{25}{30}$; $\frac{5 \times 6}{6 \times 6} = \frac{30}{36}$

5. (a) $\frac{2 \times 5}{5 \times 5} = \frac{\boxed{10}}{25}$ (b) $\frac{7 \times 2}{24 \times 2} = \frac{\boxed{14}}{48}$

(c) $\frac{6 \times 7}{9 \times 7} = \frac{42}{\boxed{63}}$ (d) $\frac{12 \times 4}{15 \times 4} = \frac{\boxed{24}}{30}$

(e) $\frac{15 \div 5}{20 \div 5} = \frac{\boxed{3}}{4}$ (f) $\frac{36 \times 9}{81 \times 9} = \frac{\boxed{4}}{9}$

(g) $\frac{6 \times 4}{7 \times 4} = \frac{\boxed{24}}{28}$ (h) $\frac{9 \times 3}{21 \times 3} = \frac{\boxed{3}}{7}$

6. (a) < (b) > (c) > (d) >

(e) = (f) > (g) < (h) >

7. (a) $\frac{6}{9}$ and $\frac{18}{27} \Rightarrow \frac{6 \times 27}{9 \times 18} = \frac{162}{162}$

This is equivalent fraction

(b) $8 \times 40 = 320$, $11 \times 20 = 220$ No.

(c) $12 \times 45 = 540$, $15 \times 36 = 540$ equivalent

(d) $4 \times 12 = 48$, $7 \times 6 = 42$, No

(e) $8 \times 21 = 168$, $14 \times 12 = 168$, Yes

(f) $9 \times 3 = 27$, $1 \times 27 = 27$ = Yes

(g) $15 \times 15 = 225$, $45 \times 5 = 225$, Yes

(h) $12 \times 19 = 228$, $18 \times 9 = 162$, No

Exercise 8.3

1. (a) $\frac{1}{5} + \frac{2}{5} = \frac{1+2}{5} = \frac{3}{5}$ (b) $\frac{3}{7} + \frac{1}{7} = \frac{3+1}{7} = \frac{4}{7}$

(c) $\frac{2}{19} + \frac{7}{19} = \frac{2+7}{19} = \frac{9}{19}$ (d) $\frac{6}{21} + \frac{9}{21} = \frac{15}{21}$

(e) $\frac{17}{28} + \frac{4}{28} = \frac{17+4}{28} = \frac{21}{28}$ (f) $\frac{6}{12} + \frac{1}{12} = \frac{7}{12}$

(g) $\frac{9}{31} + \frac{4}{31} = \frac{9+4}{31} = \frac{13}{31}$ (h) $\frac{6}{31} + \frac{15}{31} = \frac{21}{31}$

2. (a) $\frac{4}{9} + \frac{2}{9} = \frac{4-2}{9} = \frac{2}{9}$ (b) $\frac{17 \times 11}{19} = \frac{6}{19}$

(c) $\frac{45-15}{70}=\frac{30}{70}$ (d) $\frac{28-8}{40}=\frac{20}{40}$ (e) $\frac{37-7}{56}=\frac{30}{56}$

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

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

(c) $\frac{9}{40}-\frac{5}{40}=\frac{4}{40}$ (d) $\frac{12}{15}-\frac{7}{15}=\frac{5}{15}$

(e) $\frac{51}{87}-\frac{21}{87}=\frac{30}{87}$ (f) $\frac{68}{79}-\frac{41}{79}=\frac{27}{79}$

(g) $\frac{9}{11}-\frac{6}{11}=\frac{3}{11}$ (h) $\frac{31}{51}-\frac{12}{51}=\frac{19}{51}$

Exercise 8.4

1. Total height of pole $\frac{2}{3}$ m

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

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

2. Story book read by Suresh $\frac{4}{15}$

Story book read by Rahul $\frac{3}{15}=\frac{4}{15}-\frac{3}{15}=\frac{1}{15}$

Ans. Suresh read more by $\frac{1}{15}$ part

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

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

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

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

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

Money spent by him on vegetable $\frac{5}{19}$

Total money spent by him = $\frac{7}{19} + \frac{5}{19} = \frac{12}{19}$

6. Kapil bought potatoes $\frac{3}{12}$ kg

Kapil bought tomatoes $\frac{2}{12}$ kg

Kapil bought onion $\frac{1}{2}$ kg = $\frac{6}{12}$

Total vegetables bought = $\frac{3}{12} + \frac{2}{12} + \frac{6}{12} = \frac{11}{12}$ kg

7. Sum of two sides = $\frac{1}{9} + \frac{3}{9} = \frac{4}{9}$ cm

Sum of three sides = $\frac{7}{10}$ cm

Measurement of third side = $\frac{7}{10} - \frac{4}{9}$

8. Field plough by farmer on Ist day $\frac{7}{25}$

Field ploughed on IInd day $\frac{8}{25}$

Work finished in two days = $\frac{7}{25} + \frac{8}{25} = \frac{15}{25}$

9. $\frac{9}{15} - \frac{7}{15} = \frac{2}{15}$ **10.** $\frac{6}{8} + \frac{2}{8} = \frac{8}{8} = 1$

MCQ's

1. (a) 15 **2.** (b) $\frac{1}{7}$ **3.** (c) $\frac{1}{5} \times 30 = 6$ oranges

Mental Maths

1. Do yourself

2. (a) 7 (b) 4 (c) numerator, denominator

3. (a) $\frac{1}{2} + \frac{1}{2} = 1$ (b) Do yourself

(c) $\frac{1}{2}+\frac{1}{2}+\frac{1}{2}+\frac{1}{2}=2$

(d) $\frac{1}{2}+\frac{1}{2}+\frac{1}{2}+\frac{1}{2}+1=3$

Chapter 9 : Money

Exercise 9.1

1. (a) ₹ 50 (b) ₹ 75.36 p (c) ₹ 134.72
(d) ₹ 129.84 (e) ₹ 0.78 (f) ₹ 555.28

2. (a) Rupees twenty eight
(b) Rupees ninety eight and paise twenty tour
(c) Rupees one hundred fifty five and paise seventy seven.
(d) Rupees two hundred fifty and paise five
(e) Paise eighty nine
(g) Rupees seven hundred fifty one and paise twenty three.

3. (a) Rupees sixty two and paise eight.
(b) Ninety paise
(c) One rupee and sixty four paise
(d) Two hundred forty eight rupees and seventy paise
(e) Two hundred twenty six rupees
(f) Eight paise

4. (a) 18 rupees = 18 × 100 = 1800 p
(b) 52 × 100 + 20 = 5200 + 20 = 5220 paise
(c) 9 × 100 + 9 = 900 + 9 = 909 paise
(d) 84 × 100 + 72 = 8400 + 72 = 8472 paise
(e) 74 × 100 + 12 = 7400 + 12 = 7412 paise
(f) 2 × 100 + 20 = 200 + 20 = 220 paise

5. (a) ₹ 18.90 = 18 × 100 + 90
= 1800 + 90 = 1890 paise
(b) ₹ 54.79 = 54 × 100 + 79
= 5400 + 79 = 5479 paise

(c) ₹ 237.59 = 237 × 100 + 59

= 23700 + 59 = 23759 paise

(d) ₹ 536.39 = 536 × 100 = 53600 + 39

= 53639 paise

(e) ₹ 28.40 = 28 × 100 = 2800 + 40 = 2840 paise

(f) ₹ 0.75 = 0.75 × 100 = 75 paise

6. (a) 187 paise = $\frac{187}{100}$ = $100\overline{)187(1}$ = ₹ 1. 87 paise

-100

87

(b) 2200 paise = $\frac{2200}{100}$ = 22 paise

(c) 7456 paise = $\frac{7456}{100}$ = ₹ 74.56 p

(d) 3274 paise = $\frac{3274}{100}$ = ₹ 32.74 p

(e) 160 paise = $\frac{160}{100}$ = ₹ 1.60 paise

(f) $\frac{30004}{100}$ = ₹ 300.04 paise

7. (a) 425 p = ₹ 4.25 p (b) 236 p = ₹ 2.36

(c) 2450 p = ₹ 24.50 (d) 3279 p = ₹ 32.79

(e) 908 p = ₹ 9.08 (f) 4536 p = ₹ 45.36 p

Exercise 9.2

1. (a)

₹	P
87	56
+ 72	34
159	90

(b)

₹	P
34	84
+ 32	46
67	30

(c)

₹	P
42	36
+ 34	14
76	50

(d)

₹	P
84	34
+ 32	44
116	78

(e)

₹	P
74	56
+ 16	34
90	90

(f)

₹	P
28	36
+ 12	64
41	00

2. (a)

₹	P
19	45
8	46
+ 42	10
70	01

(b)

₹	P
90	40
	85
+ 102	30
193	55

(c)

₹	P
101	50
76	25
+	54
178	29

3. (a)

₹	P
88	57
− 36	42
52	15

(b)

₹	P
315	40
− 256	72
58	68

(c)

₹	P
195	54
− 55	62
139	92

(d)

₹	P
400	00
− 285	36
114	64

(e)

₹	P
745	59
− 436	85
308	74

(f)

₹	P
207	10
− 95	85
111	25

4. (a)

₹	P
50	00
−	95
49	05

(b)

₹	P
70	88
− 19	10
51	78

(c)

₹	P
11	00
− 6	25
4	75

Exercise 9.4

1. (a) 8 . 36 × 7 = ₹58 . 52 P

(b) 100 . 00 × 6 = ₹600 . 00 P

(c) 48 . 26 × 5 = ₹241 . 30 P

(d) 205 . 09 × 8 = ₹1640 . 72 P

2. (a) 83 . 45 × 3 = ₹250 . 35 P

(b) 45 . 30 × 6 = ₹ 271 . 80 P

(c) 80 . 05 × 5 = ₹ 400 . 25 P

3. Cost of one envelope 10 . 25

Cost of 8 envelopes × 8

₹ 82

4. Price of radio 450 . 80

Price of TV = × 8

₹ 3606 . 40

5. Cost of one bag = ₹ 265.25
Cost of 8 bags = 265.25 × 8 = ₹ 2122

6. Cost of one packet of grapes = ₹ 100.40
Cost of 9 packets = ₹ 100.40 × 9 = ₹ 903.60

7. Cost of one envelope = 0.95 P
Cost of 10 envelopes = 0.95 × 100 = ₹ 9.5

MCQ's

1. (a) ₹ 24.25 $\frac{2425}{100}$

2. Cost of 13 pens = 10.70 × 13 = ₹ 139.10

3. (b)
$$\begin{array}{r} 56 \\ 94 \\ +152 \\ \hline ₹302 \end{array}$$

Mental Math

1. (a) ₹ 10 × 100 = 1000 p (b) ₹ 9.60 × 100 = 960 p
(c) ₹ 0.90 × 100 = 90 p (d) $\frac{6665}{100}$ = ₹ 66.65
(e) ₹ 19.20 (f) 20 ÷ 0.25 = 80 coins
(g) 15 rupees and sixty paise

2.
$$\begin{array}{r} 72.15 \\ \times .54 \\ \hline 71.61 \end{array}$$

3. Cost of gel pen = ₹ 10.93
Cost of ball pen = − ₹ 5.25
Gel pen is costlies by ₹ 4.68 4.68

Chapter 10 : Measurement of Length

Exercise 10.1

1. (a) 7 m = 7 × 100 = 700 cm (1m = 100 cm)
(b) 5m 60 cm = 5 × 100 + 60 = 560 cm
(c) 80m 90 cm = 80 × 100 + 90 = 8000 + 90 = 8090 cm
(d) 7 m 5cm = 7 × 100 + 5 = 700 + 5 = 705 cm
(e) 22 m 5 cm = 22 × 100 + 5 = 2200 + 5 = 2205 cm
(f) 30 m 60 cm = 30 × 100 + 60 = 3000 + 60 = 3060 cm

(g) 29 m 88 cm $= 29 \times 100 + 88 = 2900 + 88 = 2988$ cm

(h) 10 m 10 cm $= 10 \times 100 + 10 = 1000 + 10 = 1010$ cm

2. (a) 400 cm $= 1 \text{ cm} = \frac{1}{100} \text{ m} = 4$ m

(b) 550 cm $= \frac{550}{100} = 5$ m 50 cm.

(c) 1200 cm $= \frac{1200}{100} = 12$ m

(d) 809 cm $= \frac{809}{100} = 8.09 = 8$ m 9 cm

(e) 4455 cm $= \frac{4455}{100} = 44$ m 55 cm

(f) 6705 cm $= \frac{6705}{100} = 67.05 = 67$ m 5 cm

(g) 7009 cm $= \frac{7009}{100} = 70.09 = 70$ m 9 cm

(h) 1305 cm $= \frac{1305}{100} = 13.05 = 13$ m 5 cm

3. (a) 9 km = 1 km = 1000 m $= 9 \times 1000 = 9000$ m.

(b) 32 km $= 32 \times 1000 = 32000$ m

(c) 50 km $= 50 \times 1000 = 50{,}000$ m

(d) 3 k 450 m $= 3 \times 1000 + 450 = 3000 + 450 = 3450$ m

(e) 5 km 460 m $= 5 \times 1000 + 460 = 5000 + 460 = 5460$ m

(f) 8 km 900 m $= 8 \times 1000 + 900$

$= 8000 + 900 = 8900$ m

(g) 19 km 455 m $= 19 \times 1000 + 455$

$= 19000 + 455 = 19455$ m

(h) 7 km 30 m $= 7 \times 1000 + 30 = 7000 + 30 = 7030$ m

4. (a) 8 m = 800 cm (8×100)

(b) 5 m 40 cm = 540 cm $(5 \times 100 + 40)$

(c) 5 m = 500 cm $\left(\frac{500}{100}\right)$

(d) 5 km = 5000 m (5×1000)

(e) 6 km 50 m = 6050 m (6000 + 50)

(f) 7 km 50 m = 7050 m $\left(\frac{7050}{1000} = 7.050\right)$

(g) 15 m 10 cm = 1510 cm (15 × 100 + 10)

(h) 10 m 40 cm = 1040 cm (10 × 100 + 40)

Exercise 10.2

1. (a) 40 m 38 cm =
+ 24 m 32 cm = 64 m 70 cm

```
  4 0 3 8
+ 2 4 3 2
---------
  6 4 7 0
```

(b) 5 m 10 cm
+ 25 m 2 cm = 30 m 12 cm

```
    5 1 0
+ 2 5 0 2
---------
  3 0 1 2
```

(c) 29 m 80 cm =
11 m 42 cm = 41 m 22 cm

```
  2 9 8 0
+ 1 1 4 2
---------
  4 1 2 2
```

(d) 50 m 15 cm =
5 m 45 cm = 55 m 60 cm

```
  5 0 1 5
+   5 4 5
---------
  5 5 6 0
```

(e) 4 km 155 m =
6 km 55 m = 10 km 210 m

```
  4 1 5 5
+ 6 0 5 5
---------
1 0 2 1 0
```

(f) 2 km 36 m =
1 km 5 m = 3 km 41 m

```
  2 0 3 6
+ 1 0 0 5
---------
  3 0 4 1
```

(g) 28 km 835 m =
12 km 256 m = 41 km 91 m

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

(h) 125 km 600 m =
215 km 405 m = 341 km 5 m

```
    1 2 5 6 0 0
+ 2 1 5 4 0 5
-------------
  3 4 1 0 0 5
```

2. (a)

m	cm
56	10
+ 20	05
76	15

(b)

m	cm
28	40
+ 36	55
64	95

(c)

m	cm
45	55
+ 12	72
58	27

(d)

km	m
72	500
+ 24	290
96	790

(e)

km	m
40	456
+ 32	732
73	188

(f)

km	m
210	895
+ 436	340
647	235

3. (a) 76 m 25 cm
= 25 m 10 cm = 51 m 15 cm

$$\begin{array}{r} 7625 \\ -2510 \\ \hline 5115 \end{array}$$

(b) 59 m 99 cm =
42 m 80 cm = 17 m 19 cm

$$\begin{array}{r} 5999 \\ -4280 \\ \hline 1719 \end{array}$$

(c) 70 m 12 cm =
12 m 36 cm = 57 m 76 cm

$$\begin{array}{r} 7012 \\ -1236 \\ \hline 5776 \end{array}$$

(d) 99 m 99 cm =
88 m 55 cm = 11 m 44 cm

$$\begin{array}{r} 9999 \\ -8855 \\ \hline 1144 \end{array}$$

(e) 7 km 230 m =
5 km 12 m = 2 km 218 m

$$\begin{array}{r} 7230 \\ -5012 \\ \hline 2218 \end{array}$$

(f) 15 km 825 m =
10 km 430 m = 5 km 395 m

$$\begin{array}{r} 15825 \\ -10430 \\ \hline 5395 \end{array}$$

(g) 50 km 400 m =
17 km 810 m = 32 km 590 m

$$\begin{array}{r} 50400 \\ -17810 \\ \hline 32590 \end{array}$$

(h) 80 km 840 m =
45 km 520 m = 35 km 320 m

$$\begin{array}{r} 80840 \\ -45520 \\ \hline 35320 \end{array}$$

4. (a)

m	cm
5	20
– 2	10
3	10

(b)

m	cm
5 8	80
– 40	8 8
1 7	9 2

(c)

m	cm
72	56
– 14	29
58	27

(d)

km	m
20	250
– 10	840
9	41

(e)

km	m
90	920
– 6	798
84	122

(f)

km	m
98	009
– 42	287
55	722

Exercise 10.3

1. Length of one thread =
Length of two thread =
Length pf third thread =
Ans. Length of reel

m	cm
128	15
128	10
+ 12	40
268	65

2. Length of one piece = 6 m 45 cm
Length of IInd piece = + 4 m 30 cm
Ans. Original length of rope = 10 m 75 cm

3.

m	cm
30	00
– 10	66
19	34

4.

m	cm
70	18
– 25	75
44	43

5. Length of a road bridge
Length of railway bridge
Length of Bridge

km	m
10	000
+ 8	350
18	350

6. Total Length of electric wire 70 m 00 cm
Length of piece cut – 35 m 65 cm
Length of left roll 34 m 35 cm

Chapter 11 : Measurement of Weight

Exercise 11.1

1. (a) 2 kg = 2 × 1000 = 2000 g (1 kg = 1000 g)
(b) 5 kg = 5 × 1000 = 5000 g

(c) 8 kg 150 g = 8 × 1000 + 150 = 8150 g

(d) 8 kg 5 g = 8 × 1000 + 5 = 8000 + 5 = 8005 g

(e) 15 kg 780 g = 15 × 1000 + 780

= 15000 + 780 = 15780 g

(f) 35 kg 80 g = 35 × 1000 + 80

= 35000 + 80 = 35080 g

(g) 10 kg 10 g = 10 × 1000 + 10

= 10,000 + 10 = 10010 g

(h) 90 kg 900 g = 90 × 1000 + 900

= 90,000 + 900 = 90900 g

2. (a) $2367\text{ g} = \frac{2367}{1000} = \left(1\text{g} = \frac{1}{1000}\text{ kg}\right) = 2\text{ kg }367\text{ g}$

(b) $3678\text{ g} = \frac{3678}{1000} = 3\text{ kg }678\text{ g}$

(c) $6087\text{ g} = \frac{6087}{1000} = 6\text{ kg }87\text{ g}$

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

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

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

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

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

3. (a) 100 kg = 100 × 1000 = 100,000 g

(b) 5 kg = 5 × 1000 = 5000 g

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

(e) 5 kg 7 g = 5000 + 7 = 5007 g

(f) 30 kg 40 g = 30,000 + 40 = 30040 g

(g) Kilogram (h) Gram

Exercise 11.2

1. (a) 4 kg 237 g = 4237
3 kg 450 g = + 3450
= 7 kg 687 g 7687

(b) 6 kg 540 g = 6540
2 kg 40 g = + 2040
= 8 kg 580 g 8580

(c) 3 kg 407 g = 3407
5 kg 5 g + 5005
= 8 kg 412 g 8412

(d) 8 kg 200 g = 8200
4 kg 30 g = + 4030
12 kg 230 g 12230

(e) 25 kg 7 g 25007
30 kg 300 g = + 30300
55 kg 307 g 55307

(f) 40 kg 6 g = 40006
70 kg 4 g + 70004
= 110 kg 10 g 110010

(g) 19 kg 5 g = 19005
5 kg 70 g = + 5070
= 24 kg 75 g 24075

(h) 38 kg 40 g = 38040
14 kg 360 g = + 14360
= 52 kg 400 g 52400

2. (a)
$$\begin{array}{r} 5\,.\,340 \\ +\ 7\,.\,280 \\ \hline 13\,.\,160 \end{array}$$

(b)
$$\begin{array}{r} 3\,.\,020 \\ +\ 5\,.\,008 \\ \hline 8\,.\,028 \end{array}$$

(c)
$$\begin{array}{r} 90\,.\,450 \\ +\ 73\,.\,268 \\ \hline 163\,.\,718 \end{array}$$

(d)
$$\begin{array}{r} 4\,.\,435 \\ 2\,.\,678 \\ +\ 3\,.\,729 \\ \hline 10\,.\,842 \end{array}$$

(e)
$$\begin{array}{rr} \text{kg} & \text{g} \\ 8\,. & 672 \\ 3\,. & 124 \\ +\ 1\,. & 729 \\ \hline 13\,. & 525 \end{array}$$

(f)
$$\begin{array}{rr} \text{kg} & \text{g} \\ 9\,. & 986 \\ 7\,. & 352 \\ +\ 1\,. & 229 \\ \hline 18\,. & 567 \end{array}$$

3. (a)
$$\begin{array}{rr} \text{kg} & \text{g} \\ 9 & 310 \\ -\ 5 & 450 \\ \hline 3 & 860 \end{array}$$

(b)
$$\begin{array}{rr} \text{kg} & \text{g} \\ 36 & 725 \\ -\ 17 & 000 \\ \hline 19 & 725 \end{array}$$

(c)
$$\begin{array}{rr} \text{kg} & \text{g} \\ 35 & 450 \\ -\ 9 & 236 \\ \hline 26 & 214 \end{array}$$

(d)
$$\begin{array}{rr} \text{kg} & \text{g} \\ 8 & 105 \\ -\ 2 & 577 \\ \hline 5 & 528 \end{array}$$

(e)
$$\begin{array}{rr} \text{kg} & \text{g} \\ 25 & 000 \\ -\ 2 & 440 \\ \hline 22 & 560 \end{array}$$

(f)
$$\begin{array}{rr} \text{kg} & \text{g} \\ 9 & 010 \\ -\ 3 & 005 \\ \hline 6 & 005 \end{array}$$

(g)
$$\begin{array}{rr} \text{kg} & \text{g} \\ 39 & 030 \\ -\ 20 & 000 \\ \hline 19 & 030 \end{array}$$

(h)
$$\begin{array}{rr} \text{kg} & \text{g} \\ 100 & 100 \\ -\ 78 & 000 \\ \hline 22 & 100 \end{array}$$

4. (a)

kg	g
48	326
− 32	257
16	069

(b)

kg	g
98	374
− 35	689
62	685

(c)

kg	g
45	377
− 28	986
16	391

(d)

kg	g
8	390
− 4	868
3	522

(e)

kg	g
28	020
− 21	800
6	220

(f)

kg	g
45	008
− 12	378
32	630

Exercise 11.3

1. Sugar bought by Ramesh — 9 kg 400 g
Rice bought by Ramesh — − 5 kg 400 g
Total weight of the articles — 14 kg 800 g

2. Potatoes bought by Bharat = 4 450
Tomatoes bought by Bharat = 7 880
Ladyfinger bought by Bharat = + 3 475
Total weight of vegetables = 15 805

3. Weight of girl = 48 kg 000 g
Weight 10st due to illness = − 2 kg 040 g
Weight pf girl now = 45 kg 960 g

4. Bucket filled with water weight = 20 kg 000 g
Weight of empty bucket = − 00 kg 900 g
Weight of water = 19 kg 100 g.

5. Weight of Suresh 56 . 989
Weight of Sanjog more by Suresh − 5 . 870
Weight of Sanjog = 62 kg 859 g 62 . 859

6.

kg	g
6	040
+ 8	010
14	050

kg	g
22	480
− 10	856
11	624

kg	g
14	050
− 11	624
2	426

Chapter 12 : Measurement of Capacity

Exercise 12.1

1. (a) 6 l = 1l = 1000 ml = 6 l = 1000 × 6 = 6000 ml

(b) 10 l = 10 × 1000 = 1000 ml

(c) 2 l 450 ml = (2 × 1000) + 450
= 2000 + 450 = 2450 ml

(d) 18 l 36 ml = (18 × 1000) + 36
= 18000 + 36 = 18036 ml

(e) 7 l 8 ml = (7 × 1000) + 8
= 7000 + 8 = 7008 ml

(f) 16 l 439 ml = (16 × 1000) + 439
= 16000 + 439 = 16439 ml

(g) 38 l 38 ml = (38 × 1000) + 38
= 38000 + 38 = 38038 ml

(h) 3 l 3 ml = (3 × 1000) + 3
= 3000 + 3 = 3003 ml

2. (a) 5000 ml = 1 ml = $\frac{1}{1000}$ l $\frac{5000}{1000}$ ml = 5 l

(b) 8006 ml = $\frac{8006}{1000}$ = 8.006 = 8 l 6 ml

(c) 3089 ml = $\frac{3089}{1000}$ = 3.089 = 3 l 89 ml

(d) 4600 ml = $\frac{4600}{1000}$ = 4.600 = 4 l 600 ml

(e) 6009 ml = $\frac{6009}{1000}$ = 6.009 = 6 l 9 ml

(f) 45236 ml = $\frac{45236}{1000}$ = 45.236 = 45 l 236 ml

(g) 23729 ml = $\frac{23729}{1000}$ = 23.729 = 23 l 729 ml

(h) 49000 ml = $\frac{49000}{1000}$ = 49.000 = 49 l

3. (a) 10 l = 10 × 1000 = 10,000 ml

(b) 4000 ml = $\frac{4000}{1000}$ = 4l

(c) 9005 ml $= \frac{9005}{1000}$ = 9 l 5 ml

(d) 8 l 75 l = (8 × 1000) + 75 = 8075 ml

(e) 4828 ml $= \frac{4828}{1000}$ = 4 l 828 ml

(f) 7290 ml $= \frac{7290}{1000}$ = 7.290 = 7 l 290 ml

(g) 3 l 25 ml = (3 × 1000) + 25 = 3025 ml

(h) 19 l = 19 × 1000 ml = 19000 ml

Exercise 12.2

1. (a)

l	ml
8	486
+ 7	084
15	570

(b)

l	ml
3	20
+ 4	72
7	92

(c)

l	ml
85	002
+ 32	004
117	006

(d)

l	ml
7	346
+ 3	042
10	388

(e)

l	ml
89	726
+ 45	000
134	726

(f)

l	ml
12	003
+ 7	452
19	455

(g)

l	ml
8	405
+ 9	488
17	893

(h)

l	ml
1	426
+ 99	445
100	871

2. (a)

l	ml
5	372
+ 6	425
11	797

(b)

l	ml
7	426
+ 3	172
10	598

(c)

l	ml
15	408
+ 75	128
90	536

(d)

51	426	
25	722	
+ 31	236	
108	384	

(e)

19	290	
20	005	
+ 12	067	
51	362	

(f)

77	425	
10	005	
+ 03	067	
90	497	

3. (a)

98	045	
− 63	425	
34	620	

(b)

80	05	
− 27	26	
52	29	

(c)

90	450	
− 44	372	
46	078	

(d)

75	326	
− 12	235	
63	091	

4. (a)

8	866	
− 6	285	
2	581	

(b)

4	926	
− 3	238	
1	688	

(c)

49	378	
− 19	898	
29	480	

(d) 70 l 540 ml
− 20 l 380 ml
50 l 160 ml

(e) 47 l 480 ml
− 28 l 679 ml
18 l 801 ml

(f) 20 l 425 ml
− 10 l 236 ml
10 l 189 ml

Exercise 12.3

1. First bucket contains milk = 8 l 140 ml
Second bucket contains milk = 10 l 550 ml
Third bucket contains milk = − 4 l 480 ml
Total quantity of milk is 23 l 170 ml = 23 l 170 ml

2. The petrol sold to first car's owner = 40 l 400 ml
The petrol sold to second car's owner = 80 l 600 ml
The petrol sold to third car's owner = − 10 l 100 ml
Total quantity of petrol is 131 l 100 ml = 131 l 100 ml

3. 8 l 454 ml = 8 × 1000 + 454 = 8000 + 454 = 8454 ml
8 l 454 ml is more = 8454 − 7058 = 1396 ml or 1 l 396 ml

4. Quantity of cold drink in jug 2 l 400 ml = 2 × 1000 + 400 = 2400 ml
− 435 ml
Quantity taken out by sunita = 1 l 965 ml = 1965 ml

5. Quantity of Petrol is Vinod's car = 20 l 500 ml
Petrol remained after journey = − 4 l 785 ml
Petrol used in journey = 15 l 715 ml

6. Quantity of refined oil sold = 14 l 250 ml
Total of sold = 20 l 440 ml
Quantity of Refined oil with the shopkeeper = − 13 l 200 ml
47 l 890 ml

Quantity sold to customers = 70 . 000
Quantity of Refined oil left = 22 l 110 ml = − 47 . 890
22 . 110

7. Quantity of oil in Tin = 14 l 340 ml
Oil wasted due to leakage = − 985 ml
Oil left in the tin = 13 l 355 ml

8. Capacity of one tin — 20 l 200 ml
Capacity of other tin — – 40 l 200 ml
Total paint purchased — 60 l 400 ml

MCQ's

1. (b) 9568 cm (95 × 100 + 68 = 9568)
2. (a) 306 cm (3 × 100 + 6 = 306)
3. (c) Kilogram
4. (b) 4050 g (4 × 1000 + 50)
5. (c) 1 l 650 ml (2 l 350 ml – 750 ml)

Mental Math

1. (a) 450 ml + 550 ml = 1l (1000 – 450)
(b) 500 g + 500 g = 1 kg
(c) 1000 m = 1 km
(d) 260 m + 740 = 1 km (1000 – 740)

2. (a) < (1050 < 1150)
(b) > (7435 > 1135 = (7 × 100 + 435)
(c) > (2240 > 2024) (d) = (5088 = 5088)
(e) > (7600 > 7060) (f) < (7098 < 7980)
(g) < (9085 < 9850) (h) > (3410 > 3041)

3. (a) Weight of suitcase — 25 kg 740 g
Weight of bag — + 17 kg 355 g
— 43 kg 095 g

(b) Total distance to be covered — 75 km 400 m
Distance covered — – 54 km 750 m
Distance left — 20 km 650 m

Chapter 13 : Time

Exercise 13.1

1. (a) 10 : 00 (b) 3 : 00 (c) 6 : 00 (d) 4 : 30
(e) 5 : 30 (f) 10 : 30 (g) 4 : 10 (h) 6 : 50
(i) 3 : 40 (j) 8 : 30 (k) 6 : 30 (l) 9 : 30

2. Do yourself

Exercise 13.2

1. (a) 5 : 30 am (b) 6 : 50 pm
(c) 11 : 15 am (d) 12 : 40 am

2. (a) 60 minutes (b) minute hand
(c) 60 seconds (d) 24 hours

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

Exercise 13.3

1. (a) 8 months = 1 month = 30 days
= 8 month = 30 × 8 = 240 days

(b) 4 months 5 weeks = 4 × 30 = 120 days
= 1 week = 7 days = 5 weeks = 7 × 5 = 35 days
= 120 + 35 = 155 days

(c) 5 weeks 3 days = 5 × 7 = 35 + 3 = 38 days

(d) 48 hours = 1 day = 24 hours
= 48 hrs = $\frac{48}{24}$ = 2 days

(e) 3 months 8 weeks = (3 × 30) + (8 × 7)
= 90 + 56 = 146 days

(f) 8 weeks = 8 × 7 = 56 days

(g) 6 months and 2 weeks = (6 × 30) + (2 × 7)
= 180 + 14 = 194 days

(h) 7 weeks and 24 hrs = 7 × 7 + 1 = 49 + 1 = 50 days

2. (a) 8 days = 1 day = 24 hrs
8 days = 24 × 8 = 192 hours

(b) 31 days = 31 × 24 = 744 hours

(c) 7 days 6 hours = (7 × 24) + 6 = 174 hours

(d) 1 week 5 hours
= 1 week = 7 days = 7 × 24 = 168 hours

(e) 2 weeks 4 hours (2 × 7 × 24) + 4
= 336 + 4 = 340 hours

(f) 15 days 10 hours = (15 × 24) + 10
360 + 10 = 370 hours

(g) 3 weeks 3 days 3 hours $(3 \times 7 \times 24) + (3 \times 24) + 3$
$504 + 72 + 3 = 579$ hours

(h) 2 weeks 4 days 6 hours $(2 \times 7 \times 24) + (4 \times 24) + 6$
$336 + 96 + 6 = 438$ hours

3. (a) 10 hours = 1 hr = 60 minutes
10 hr $= 60 \times 10 = 600$ min

(b) 36 hours $= 36 \times 60 = 2160$ min

(c) 7 hours 20 min $= 7 \times 60 = 420 + 20 = 440$ min

(d) 1 day 2 hours= 1 day = 24 hours + 2 hrs = 26 hrs
$26 \times 60 = 1560$ min

(e) 7 days 20 min = 7 days $= 7 \times 24 = 168$ hours
$(168 \times 60) + 20 = 10080 + 20 = 10100$ min

(f) 24 hours $= 24 \times 60 = 1440$ min

(g) 5 days 30 min $(5 \times 24 \times 60) + 30$
$7200 + 30 = 7230$ min

(h) 2 days 3 hours 17 min
$= (2 \times 24 \times 60) + (3 \times 60) + 17$
$2880 + 180 + 17 = 3077$ min

4. (a) 12 min = 1 min = 60 seconds
12 min $= 60 \times 12 = 720$ seconds

(b) 5 hours = 1 hrs = 3600 seconds
$5 \times 60 \times 60$ or $5 \times 3600 = 18000$ sec.

(c) 10 min 20 sec $= (10 \times 60) + 20 = 600 + 20 = 620$ sec.

(d) 8 hrs. 6 min.
$(8 \times 3600) + (6 \times 60) = 28800 + 360 = 29160$ sec.

(e) 1 day 20 seconds $(1 \times 24 \times 3600) + 20$
$= 86400 + 20 = 86420$ sec

(f) 5 hrs 30 sec $(5 \times 3600) + 30$
$= 18000 + 30 = 18030$ sec.

(g) 5 hrs 10 min 10 sec. $(5 \times 3600) + (10 \times 60) + 10$
$18000 + 600 + 10 = 18610$ sec.

(h) 10 hrs 30 sec
$(10 \times 3600) + 30 = 36000 + 30 = 36030$ sec.

5. (a) 120 min (2 × 60) (b) 366 days (c) March
(d) 1 week (e) 3600 seconds (f) 30 days
(g) November (h) 31 days

MCQ's

1. (b) 10 **2.** (b) 45 min
3. (b) 180 sec (3 × 60)
4. (c) 4205 sec. [3600 + (10 × 60) + 5] **5.** (b) decade

Mental Math

1. (a) 15 min (b) 3 past 15 min
(b) midnight / noon (d) 5 : 45
(e) 4 past 45 min (f) 8 : 45

Chapter 14 : Geometry

Exercise 14.1

1. Do yourself
2. Do yourself
3. (a) point (b) one (c) no
(d) one (e) two
4. (a) False (b) False (c) True
(d) True (e) True
5. (a) Points A, B, C, D
Line segment AB, BC, BD, AC
(b) Point P, Q, R, S, T, U
Line segment PQ, QR, RS, ST, TU, UP
(c) Point X, Y, Z, V, W
line segement XW, VW, VZ, ZY, YZ, WZ

Exercise 14.2

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

MCQ's

1. (a) line **2.** (a) **3.** sphere

Chapter 15 : Pictograph

Exercise 15.1

1. (a)

Line	=	5 × 10	=	50
Deers	=	3 × 10	=	30
Ciraffe	=	6 × 10	=	60
Moureys	=	2 × 10	=	20
Tigers	=	8 × 10	=	80
				240 animals

(b) 6 × 10 = 60 giraffes (c) Tigers = 80

(d) Monkeys = 20 (e) five

2. (a) Mango (8 × 5 = 40 children)

(b) Papaya (10 children)

(c) 6 × 5 = 30 children

(d) 4 × 5 = 20 children

(e) Pictograph shows the information about the children who likes different fruits.

3. Do yourself **4.** Do yourself