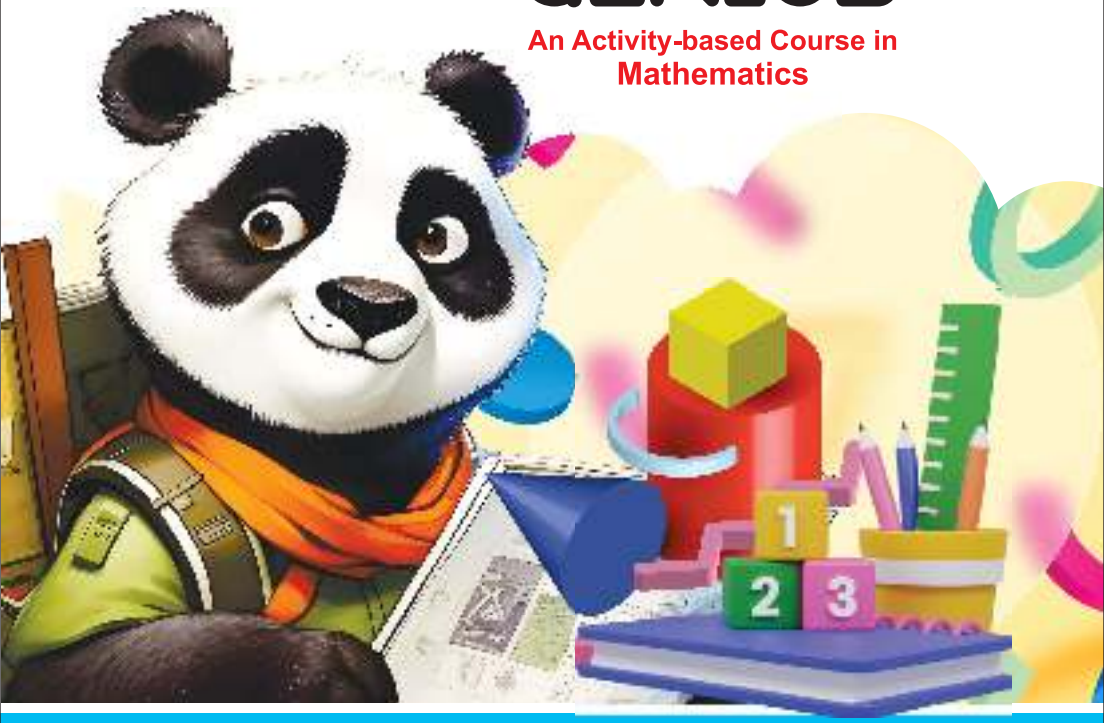
Teacher's Manual

Fiesta Learning
Big Ideas Simply Explained

Practice Makes Perfect !

MATHS GENIUS

An Activity-based Course in Mathematics



Designed by Expert Mathematicians

Sharma | Verma

3

Revision

1. (a) 45 = Forty five
(b) 205 = Two hundred five
(c) 816 = Eight hundred sixteen
(d) 639 = Six hundred thirty-nine
(e) 999 = Nine hundred ninety nine
(f) 645 = Six hundred forty-five
(g) 718 = Seven hundred eighteen
(h) 966 = Nine hundred sixty-six
(i) 685 = Six hundred eighty-five
(j) 587 = Five hundred eighty-seven

2. (a) Seventy-four = 74
(b) Seven hundred and seventy-seven = 777
(c) Ninety-four = 94
(d) Eight hundred ten = 810
(e) Two hundred seventy-eight = 278
(f) Three hundred and seventy-five = 375
(g) One hundred and nine = 109
(h) Nine hundred and seventy = 970
(i) Four hundred and forty-nine = 449
(j) Nine hundred and ninety-eight = 998

3. (a) 6 hundreds + 3 tens + 2 ones = 632
(b) 4 hundreds + 6 tens + 5 ones = 465
(c) 3 hundreds + 7 tens + 4 ones = 374
(d) 3 hundreds + 5 tens + 0 one = 350
(e) 4 hundreds + 0 ten + 7 ones = 407

4. (a) 369 = 3 hundreds + 6 tens + 9 ones
(b) 719 = 7 hundreds + 1 ten + 9 ones
(c) 850 = 8 hundreds + 5 tens + 0 one
(d) 607 = 6 hundreds + 0 ten + 7 ones
(e) 993 = 9 hundreds + 9 tens + 3 ones

5. 126, 127, 128, 129

6. Least number is 124.

7. Greatest two digits number is 99.

8. Smallest two digits number is 10.

9. Greatest three digits number is 999.

10. Smallest three digits number is 100.

11. 672

12. 956

13. 851, 403, 392, 101, 85

14. 210, 365, 456, 609, 765, 819

15. 657, 658, 659, 660, 661, 662

16. (a) 725 < 737 (b) 605 > 595 (c) 200 < 210
(d) 410 > 401 (e) 980 > 890 (f) 760 = 760

17. There are 10, 1-digit numbers.

18. There are 90, 2-digit numbers.

19. There are 900, 3-digit numbers.

20. 651, 671, 691, 711, 731, 751

21. 709, 714, 719, 724, 729, 734, 739

22. 219, 319, 419, 519, 619, 719, 819, 919

23. (a)
$$\begin{array}{r} 507 \\ +\ 283 \\ \hline 790 \end{array}$$

(b)
$$\begin{array}{r} 829 \\ +\ 96 \\ \hline 925 \end{array}$$

(c)
$$\begin{array}{r} 234 \\ +\ 679 \\ \hline 913 \end{array}$$

(d)
$$\begin{array}{r} 176 \\ +\ 599 \\ \hline 775 \end{array}$$

(e)
$$\begin{array}{r} 156 \\ 185 \\ +\ 297 \\ \hline 638 \end{array}$$

(f)
$$\begin{array}{r} 754 \\ 98 \\ +\ 134 \\ \hline 986 \end{array}$$

(g)
$$\begin{array}{r} 89 \\ 198 \\ +\ 176 \\ \hline 463 \end{array}$$

(h)
$$\begin{array}{r} 276 \\ 395 \\ +\ 107 \\ \hline 778 \end{array}$$

24. (a)
$$\begin{array}{r} 489 \\ +\ 65 \\ \hline 554 \end{array}$$
(b)
$$\begin{array}{r} 905 \\ +\ 79 \\ \hline 984 \end{array}$$
(c)
$$\begin{array}{r} 749 \\ +\ 195 \\ \hline 944 \end{array}$$

(d)
$$\begin{array}{r} 279 \\ 156 \\ +\ 87 \\ \hline 522 \end{array}$$
(e)
$$\begin{array}{r} 700 \\ 77 \\ +\ 7 \\ \hline 784 \end{array}$$
(f)
$$\begin{array}{r} 256 \\ 379 \\ +\ 262 \\ \hline 897 \end{array}$$

25. (a)
$$\begin{array}{r} 34 \\ -\ 18 \\ \hline 16 \end{array}$$
(b)
$$\begin{array}{r} 64 \\ -\ 39 \\ \hline 25 \end{array}$$
(c)
$$\begin{array}{r} 94 \\ -\ 48 \\ \hline 46 \end{array}$$
(d)
$$\begin{array}{r} 87 \\ -\ 49 \\ \hline 38 \end{array}$$

(e)
$$\begin{array}{r} 73 \\ -\ 57 \\ \hline 16 \end{array}$$
(f)
$$\begin{array}{r} 83 \\ -\ 39 \\ \hline 44 \end{array}$$
(g)
$$\begin{array}{r} 78 \\ -\ 59 \\ \hline 19 \end{array}$$
(h)
$$\begin{array}{r} 63 \\ -\ 37 \\ \hline 26 \end{array}$$

26. (a)
$$\begin{array}{r} 540 \\ -\ 256 \\ \hline 284 \end{array}$$
(b)
$$\begin{array}{r} 832 \\ -\ 546 \\ \hline 286 \end{array}$$
(c)
$$\begin{array}{r} 605 \\ -\ 419 \\ \hline 186 \end{array}$$

(d)
$$\begin{array}{r} 872 \\ -\ 779 \\ \hline 93 \end{array}$$
(e)
$$\begin{array}{r} 971 \\ -\ 478 \\ \hline 493 \end{array}$$
(f)
$$\begin{array}{r} 852 \\ -\ 685 \\ \hline 167 \end{array}$$

(g)
$$\begin{array}{r} 506 \\ -\ 235 \\ \hline 271 \end{array}$$
(h)
$$\begin{array}{r} 700 \\ -\ 659 \\ \hline 41 \end{array}$$

27. (a)
$$\begin{array}{r} 525 \\ -\ 386 \\ \hline 139 \end{array}$$
(b)
$$\begin{array}{r} 703 \\ -\ 575 \\ \hline 128 \end{array}$$
(c)
$$\begin{array}{r} 800 \\ -\ 709 \\ \hline 91 \end{array}$$

(d)
$$\begin{array}{r} 9\ 7\ 8 \\ -\ 6\ 5\ 9 \\ \hline 3\ 1\ 9 \end{array}$$

(e)
$$\begin{array}{r} 8\ 4\ 0 \\ -\ 6\ 6\ 1 \\ \hline 1\ 7\ 9 \end{array}$$

(f)
$$\begin{array}{r} 7\ 2\ 1 \\ -\ 6\ 4\ 9 \\ \hline 7\ 2 \end{array}$$

(g)
$$\begin{array}{r} 5\ 0\ 1 \\ -\ 3\ 1\ 2 \\ \hline 1\ 8\ 9 \end{array}$$

(h)
$$\begin{array}{r} 8\ 0\ 0 \\ -\ 6\ 9\ 7 \\ \hline 1\ 0\ 3 \end{array}$$

28. Total page of three books = 312 + 469 + 132 = 913
So, 913 pages did she read.

29. Raju reads pages of a book in one day = 53
He reads the remaining pages on next day = 29
Total pages of the book = 53 + 29 = 82
So, 82 pages did the book contain.

30. The number of boys in a class = 29
The number of girls in a class = 38
Total number of students = 29 + 38 = 67
So, the total number of students is 67.

31. Books contained in one packet = 336
Books contained in second packet = 281
Books contained in third packet = 129
Total books contained in both packets
= 336 + 281 + 129 = 746
So, 746 books did he buy.

32. Eggs sold on Monday = 258
Eggs sold on Tuesday = 369
Total eggs sold on both days = 258 + 369 = 627
So, 627 eggs did he sell.

33. Kuku eats peanuts = 48
Ritu eats peanuts = 54
Vicky eats peanuts = 36
They eats peanuts = 48 + 54 + 36 = 138
So, 138 peanuts do they eat.

34. Total number of apples contain three boxes
= 183 + 176 + 159 = 518
So, 518 apples are there in these boxes.

35. Total number of nails = 653
He used the nails = 484
Nails left = 653 – 484 = 169
So, 169 nails were left.

36. Parvinder has mangoes = 935
He sold the mangoes = 386
Mangoes left = 935 – 386 = 549
So, 549 mangoes are left.

37. Total number of students in a school = 235
The number of boys = 128
The number of girls = 235 – 128 = 107
So, 107 girls are there.

38. Renu has thread balls = 837
She uses to knit a table cover = 769
Thread balls are left = 837 – 769 = 68
So, 68 thread balls are left.

39. (a)

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

(b)

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

(c)

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

(d)

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

(e)

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

(f)

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

40. (a)

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

(b)

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

(c)

$$\begin{array}{r} 9\ 1 \\ \times\ 8 \\ \hline 7\ 2\ 8 \end{array}$$

(d)
$$\begin{array}{r} 145 \\ \times\ 5 \\ \hline 725 \end{array}$$

(e)
$$\begin{array}{r} 253 \\ \times\ 4 \\ \hline 1012 \end{array}$$

(f)
$$\begin{array}{r} 327 \\ \times\ 3 \\ \hline 981 \end{array}$$

(g)
$$\begin{array}{r} 457 \\ \times\ 2 \\ \hline 814 \end{array}$$

(h)
$$\begin{array}{r} 796 \\ \times\ 5 \\ \hline 3980 \end{array}$$

41. Total number of packets of balloons = 8
Each packet contains balloons = 15
Total number of balloons in 8 packets = $15 \times 8 = 120$
So, 120 balloons are there in 8 packets.

42. Total number of boxes = 65
Each box contains marbles = 20
Total number of marbles in all boxes = $65 \times 20 = 1300$
So, 1300 marbles are their in all.

43. The coca-cola bottles in one box = 24
The number of boxes = 15
Total number bottles in 15 boxes = $24 \times 15 = 360$
So, 360 coca-cola bottles are there in 15 boxes.

44. The total number of families = 250
Each family has children = 3
Total number of children in 250 families = $250 \times 3 = 750$
So, 750 children are there in all families.

45. (a)

	m	**cm**
	36	52
+	38	38
	74	90

(b)

	m	**cm**
	25	35
+	10	45
	35	80

(c)

	km	**m**
	16	254
+	3	576
	19	830

(d)

	km	**m**
	26	375
+	10	275
	36	650

(e)

	km	**m**
	83	045
+	22	575
	105	620

(f)

	l	**m*l***
	5	235
+	2	545
	7	780

(g)

₹	p
68	25
+ 23	05
91	30

(h)

₹	p
66	09
+ 18	95
85	04

46. (a)

m	cm
66	78
– 13	49
53	29

(b)

l	m*l*
70	726
– 49	647
21	079

(c)

kg	g
44	982
– 9	797
35	185

(d)

km	m
86	500
– 67	275
19	225

(e)

km	m
200	320
– 161	175
39	145

(f)

₹	p
168	50
– 49	25
119	25

(g)

₹	p
167	40
– 48	24
119	16

(h)

km	m
199	20
– 26	15
173	05

47. The cost of one eraser = ₹ 9
The cost of a note book = ₹ 20
The cost of a pencil box = ₹ 70
Total amount of these things = ₹ 9 + ₹ 20 + ₹ 70 = ₹ 99
Arvind gave note to shopkeeper = ₹ 100
Shopkeeper return the amount = ₹ 100 – ₹ 99 = ₹ 1
So, ₹ 1 did the shopkeeper return.

48. Kiran deposited the amount her bank = ₹ 155
She withdraw = ₹ 125
Balance in the bank = ₹ 155 – ₹ 125 = ₹ 30
So, ₹ 30 is her balance in the bank.

49. Rekha went to market with amount = ₹ 500
She purchase a doll = ₹ 250
She purchase clothes = ₹ 180
Total purchasing amount = ₹ 250 + ₹ 180 = ₹ 430
Money left with Rekha = ₹ 500 – ₹ 430 = ₹ 70
So, ₹ 70 were left with Rekha.

50. (a) $42 \div 6 = 7$ (b) $36 \div 6 = 6$ (c) $18 \div 3 = 6$

(d) $64 \div 8 = 8$ (e) $48 \div 6 = 8$ (f) $30 \div 5 = 6$

(g) $36 \div 9 = 4$ (f) $40 \div 5 = 8$

51. (a) $86 \div 7$

$7\overline{)86}\,(12$

$-7\downarrow$

16

-14

2

Quotient = 12

Remainder = 2

(b) $76 \div 8$

$8\overline{)76}\,(9$

-72

4

Quotient = 9

Remainder = 4

(c) $40 \div 5$

$5\overline{)40}\,(8$

-40

0

Quotient = 8

Remainder = 0

(d) $660 \div 6$

$6\overline{)660}\,(110$

$-6\downarrow$

6

$-6\downarrow$

0

0

0

Quotient = 110

Remainder = 0

(e) $777 \div 7$

$7\overline{)777}\,(111$

$-7\downarrow$

7

$-7\downarrow$

7

-7

0

Quotient = 111

Remainder = 0

(f) $606 \div 6$

$6\overline{)606}\,(101$

$-6\downarrow$

0

$-0\downarrow$

6

-6

0

Quotient = 101

Remainder = 0

(g) $695 \div 50$

$50\overline{)695}\,(13$

$-50\downarrow$

195

-150

45

Quotient = 13

Remainder = 45

(h) $798 \div 70$

$70\overline{)798}\,(11$

$-70\downarrow$

98

-70

28

Quotient = 11

Remainder = 28

(i) $695 \div 60$

$60\overline{)695}\,(11$

$-60\downarrow$

95

-60

35

Quotient = 11

Remainder = 35

(j) $246 \div 5$

$5\overline{)246}\,(48$

$-20\downarrow$

46

-40

6

(k) $861 \div 86$

$86\overline{)861}\,(10$

$-86\downarrow$

1

-0

1

(l) $981 \div 9$

$9\overline{)981}\,(109$

$-9\downarrow$

8

$-0\downarrow$

81

-81

0

Quotient = 48 Quotient = 10 Quotient = 109
Remainder = 6 Remainder = 1 Remainder = 0

52. Total number of pencils = 35
Pencils in each box = 5
Number of boxes = 35 ÷ 5 = 7
So, 7 boxes of pencils does he have.

53. Total number of chalk sticks boxes = 63
They are equally given to classes = 7
Each class get chalk sticks boxes = 63 ÷ 7 = 9
So, 9 boxes will each class get.

54. School days in one week = 6
Total days of school = 24
Weeks of school = 24 ÷ 6 = 4
So, 4 weeks of school are in 24 school days.

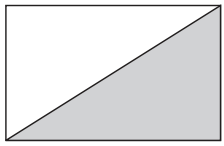
55. (a) Friday comes after Thursday and before Saturday.
(b) Tuesday comes after Monday and before Wednesday.
(c) Monday comes after Sunday and before Tuesday.
(d) Thursday comes after Wednesday and before Friday.
(e) Wednesday comes after Tuesday and before Thursday.
(f) Sunday comes after Saturday and before Monday.
(g) Saturday comes after Friday and before Sunday.

56. Oil contained in a bottle = 150 *l*
Oil dropped from the bottle = 45 *l*
Oil left in the bottle = 150 – 45 = 105 *l*
So, 105 *l* oil was left in the bottle.

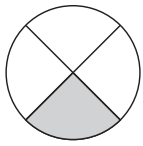
57. Total petrol purchased = 985 *l*
Petrol sold out = 599 *l*
Petrol left = 985 – 599 = 386 *l*
So, 386 *l* petrol was left with him.

58. Milk sells in 1 day = 125 *l*
Milk sells in 4 days = 125 × 4 = 500 *l*
So, 500 *l* milk will it sell in 4 days.

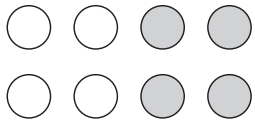
59. We know 1 m = 100 cm or 100 cm = 1 m
(a) 13 m into cm ⇒ 13 m × 100 = 1300 cm
(b) 700 cm into m ⇒ 700 cm ÷ 100 = 7 m
(c) 9 m into cm ⇒ 9 m × 100 = 900 cm
(d) 90 cm into m ⇒ 90 cm ÷ 100 = 0.9 m
(e) 6 m into cm ⇒ 6 m × 100 = 100 cm
(f) 13 cm into m ⇒ 13 cm × 100 = 0.13 m

60. (a) 

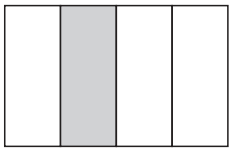
$\frac{1}{2}$

(b) 

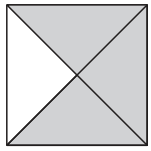
$\frac{1}{4}$

(c) 

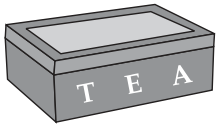
$\frac{4}{8}$

(d) 

$\frac{1}{4}$

(e) 

$\frac{3}{4}$

61. (a) 

Cuboid

(b) 

Cone

(c) 

Oval

(d) 

Sphere

(e) 

Cylindrical

(f) 

Cone

Numbers Up to Ten Thousands

Let Us Do-2A

1. (a) 8769 = Eight thousand seven hundred sixty-nine
(b) 2002 = Two thousand and two
(c) 4403 = Four thousand four hundred and three
(d) 3333 = Three thousand three hundred and thirty-three
(e) 4009 = Four thousand and nine
(f) 7391 = Seven thousand three hundred and ninety-one

(g) 4976 = Four thousand nine hundred and seventy-six
(h) 5067 = Five thousand and sixty-seven

2. (b) 4819, 4820, 4821, 4822, 4823, 4824, 4825
(c) 5003, 5004, 5005, 5006, 5007, 5008, 5009
(d) 7986, 7985, 7984, 7983, 7982, 7981, 7980
(e) 8539, 8538, 8537, 8536, 8535, 8534, 8533
(f) 6444, 6443, 6442, 6441, 6440, 6439, 6438
(g) 2284, 2286, 2288, 2290, 2292, 2294, 2296
(h) 4550, 4552, 4554, 4556, 4558, 4560, 4562
(i) 9342, 9347, 9352, 9357, 9362, 9367, 9372
(j) 1810, 1820, 1830, 1840, 1850, 1860, 1870

3. (b) 6870 = 6 thousands 8 hundreds 7 tens 0 one
(c) 3023 = 3 thousands 0 hundred 2 tens 3 ones
(d) 6302 = 6 thousands 3 hundreds 0 ten 2 ones
(e) 4059 = 4 thousands 0 hundred 5 tens 9 ones
(f) 7080 = 7 thousands 0 hundred 8 tens 0 one
(g) 8634 = 8 thousands 6 hundreds 3 tens 4 ones

4.

	Th	**H**	**T**	**O**
(b) 6 thousands 4 hundreds 6 tens and 7 ones	6	4	6	7
(c) 7 thousands 8 hundreds 0 ten and 3 ones	7	8	0	3
(d) 8 thousands 7 hundreds 7 tens and 0 one	8	7	7	0
(e) 5 thousands 2 hundreds 7 tens and 3 ones	5	2	7	3
(f) 4 thousands 0 hundred 4 tens and 5 ones	4	0	4	5
(g) 9 thousands 6 hundreds 0 ten and 6 ones	9	6	0	6
(h) 7 thousands 5 hundreds 2 tens and 0 one	7	5	2	0
(i) 6 thousands 0 hundred 0 ten and 7 ones	6	0	0	7
(j) 8 thousands 0 hundred 8 tens and 6 ones	8	0	8	6

5.		**Th**	**H**	**T**	**O**
	(b) $4 \times 1000 + 2 \times 100 + 4 \times 10 + 6 \times 1$	4	2	4	6
	(c) $6 \times 1000 + 2 \times 100 + 3 \times 10 + 7 \times 1$	6	2	3	7
	(d) $8 \times 1000 + 0 \times 100 + 4 \times 10 + 3 \times 1$	8	0	4	3
	(e) $7 \times 1000 + 4 \times 100 + 0 \times 10 + 8 \times 1$	7	4	0	8
	(f) $4 \times 1000 + 0 \times 100 + 0 \times 10 + 4 \times 1$	4	0	0	4
	(g) $3 \times 1000 + 0 \times 100 + 4 \times 10 + 0 \times 1$	3	0	4	0
	(h) $5 \times 1000 + 0 \times 100 + 0 \times 10 + 8 \times 1$	5	0	0	8

6.		**Th**	**H**	**T**	**O**
	(b) Five thousands nine hundreds and thirty-three	5	9	3	3
	(c) Eight thousands five hundreds and sixty-two	8	5	6	2
	(d) Six thousands two hundreds and eighty-four	6	2	8	4
	(e) Seven thousands three hundreds and two	7	3	0	2
	(f) Two thousands two hundreds and five	2	2	0	5
	(g) Two thousands sixty-seven	2	0	6	7
	(h) One thousand thirty-nine	1	0	3	9
	(i) Five thousands and eight	5	0	0	8
	(j) Nine thousands nine hundreds and six	9	9	0	6
	(k) Four thousands and ten	4	0	1	0
	(l) Two thousand three hundreds and twenty	2	3	2	0

7. (a) 2369 = 2 thousands + 3 hundreds + 6 tens + 9 ones
$= 2 \times 1000 + 3 \times 100 + 6 \times 10 + 9 \times 1$
$= 2000 + 300 + 60 + 9$

(b) 3709 = 3 thousands + 7 hundreds + 0 ten + 9 ones
$= 3 \times 1000 + 7 \times 100 + 0 \times 10 + 9 \times 1$
$= 3000 + 700 + 9$

(c) 4079 = 4 thousands + 0 hundred + 7 tens + 9 ones
$= 4 \times 1000 + 0 \times 100 + 7 \times 10 + 9 \times 1$
$= 4000 + 70 + 9$

(d) 9909 = 9 thousands + 9 hundreds + 0 ten + 9 ones
$= 9 \times 1000 + 9 \times 100 + 0 \times 10 + 9 \times 1$
$= 9000 + 900 + 9$

(e) 8008 = 8 thousands + 0 hundred + 0 ten + 8 ones
$= 8 \times 1000 + 0 \times 100 + 0 \times 10 + 8 \times 1$
$= 8000 + 8$

(f) 3300 = 3 thousands + 3 hundreds + 0 ten + 0 one
$= 3 \times 1000 + 3 \times 100 + 0 \times 10 + 0 \times 1$
$= 3000 + 300$

(g) 4044 = 4 thousands + 0 hundred + 4 tens + 4 ones
$= 4 \times 1000 + 0 \times 100 + 4 \times 10 + 4 \times 1$
$= 4000 + 40 + 4$

(h) 5555 = 5 thousands + 5 hundreds + 5 tens + 5 ones
$= 5 \times 1000 + 5 \times 100 + 5 \times 10 + 5 \times 1$
$= 5000 + 500 + 50 + 5$

(i) 5666 = 5 thousands + 6 hundreds + 6 tens + 6 ones
$= 5 \times 1000 + 6 \times 100 + 6 \times 10 + 6 \times 1$
$= 5000 + 600 + 60 + 6$

(j) 7770 = 7 thousands + 7 hundreds + 7 tens + 0 one
$= 7 \times 1000 + 7 \times 100 + 7 \times 10 + 0 \times 1$
$= 7000 + 700 + 70$

(k) 9097 = 9 thousands + 0 hundred + 9 tens + 7 ones
$= 9 \times 1000 + 0 \times 100 + 9 \times 10 + 7 \times 1$
$= 9000 + 90 + 7$

(l) 6001 = 6 thousands + 0 hundred + 0 ten + 1 one
$= 6 \times 1000 + 0 \times 100 + 0 \times 10 + 1 \times 1$
$= 6000 + 1$

8. (b) 4099 to 4103 $\Rightarrow$ 4099, 4100, 4101, 4102, 4103
(c) 3298 to 3302 $\Rightarrow$ 3298, 3299, 3300, 3301, 3302
(d) 7269 to 7273 $\Rightarrow$ 7269, 7270, 7271, 7272, 7273
(e) 6354 to 6358 $\Rightarrow$ 6354, 6355, 6356, 6357, 6358
(f) 8379 to 8383 $\Rightarrow$ 8379, 8380, 8381, 8382, 8383
(g) 7365 to 7369 $\Rightarrow$ 7365, 7366, 7367, 7368, 7369

9. (b) 8303 to 8298 $\Rightarrow$ 8303, 8302, 8301, 8300, 8299, 8298
(c) 4109 to 4104 $\Rightarrow$ 4109, 4108, 4107, 4106, 4105, 4104
(d) 6670 to 6665 $\Rightarrow$ 6670, 6669, 6668, 6667, 6666, 6665
(e) 2384 to 2379 $\Rightarrow$ 2384, 2383, 2382, 2381, 2380, 2379
(f) 3319 to 3314 $\Rightarrow$ 3319, 3318, 3317, 3316, 3315, 3314

10. (b) 4138 $\Rightarrow$ 4137, 4136, 4135, 4134
(c) 2712 $\Rightarrow$ 2713, 2714, 2715, 2716
(d) 9816 $\Rightarrow$ 9817, 9818, 9819, 9820
(e) 7423 $\Rightarrow$ 7424, 7425, 7426, 7427
(f) 5506 $\Rightarrow$ 5507, 5508, 5509, 5510
(g) 3856 $\Rightarrow$ 3857, 3858, 3859, 3860

11. **Alterative numbers** **Place Value**

(a) 6 4 3 2

2 ones = 2×1 $\rightarrow$ 2
3 tens = 3×10 $\rightarrow$ 30
4 hundreds = 4×100 $\rightarrow$ 400
6 thousands = 6×1000 $\rightarrow$ 6000

Alterative numbers **Place Value**

(b) 7 3 4 9

9 ones = 9×1 $\rightarrow$ 9
4 tens = 4×10 $\rightarrow$ 40
3 hundreds = 3×100 $\rightarrow$ 300
7 thousands = 7×1000 $\rightarrow$ 7000

(c) 5 6 7 8

8 ones = 8×1 $\rightarrow$ 8
7 tens = 7×10 $\rightarrow$ 70
6 hundreds = 6×100 $\rightarrow$ 600
5 thousands = 5×1000 $\rightarrow$ 5000

(d) 7 8 6 9

9 ones = 9×1 $\rightarrow$ 9
6 tens = 6×10 $\rightarrow$ 60
8 hundreds = 8×100 $\rightarrow$ 800
7 thousands = 7×1000 $\rightarrow$ 7000

(e) 5 3 6 7

7 ones = $7 \times 1 \rightarrow 7$

6 tens = $6 \times 10 \rightarrow 60$

3 hundreds = $3 \times 100 \rightarrow 300$

5 thousands = $5 \times 1000 \rightarrow 5000$

(f) 8 9 7 0

0 one = $0 \times 1 \rightarrow 0$

7 tens = $7 \times 10 \rightarrow 70$

9 hundreds = $9 \times 100 \rightarrow 900$

8 thousands = $8 \times 1000 \rightarrow 8000$

(g) 6 3 0 8

8 ones = $8 \times 1 \rightarrow 8$

0 ten = $0 \times 10 \rightarrow 0$

3 hundreds = $3 \times 100 \rightarrow 300$

6 thousands = $6 \times 1000 \rightarrow 6000$

(h) 4 0 7 1

1 one = $1 \times 1 \rightarrow 1$

7 tens = $7 \times 10 \rightarrow 70$

0 hundred = $0 \times 100 \rightarrow 0$

4 thousands = $4 \times 1000 \rightarrow 4000$

12. The first 8 occurs at ten's place

Its place value = 8 tens = 80

The second 8 occurs at thousand's place

Its place value = 8 thousands = 8000

Difference between two place values = 8000 – 80 = 7920

13. The first 6 occurs at one's place

Its place value = 6 ones = 6

The second 6 occurs at thousand's place

Its place value = 6 thousands = 6000

Difference between two place values = 6000 – 6 = 5994

14. Arrange the digits 9721 in the place value chart as shown below :

Th	H	T	O
9	7	2	1

From the place value chart, we have
The place value of 7 = 7 hundreds = 700

15. Arrange the digits 3462 in the place value chart as shown below :

Th	H	T	O
3	4	6	2

From the place value chart, we have
The place value of 3 = 3 thousands = 3000

16. Arrange the digits 8037 in the place value chart as shown below :

Th	H	T	O
8	0	3	7

From the place value chart, we have
The place value of 0 = 0 hundreds = 0

17. Arrange the digits 1903 in the place value chart as shown below :

Th	H	T	O
1	9	0	3

From the place value chart, we have
The place value of 9 = 9 hundreds = 900

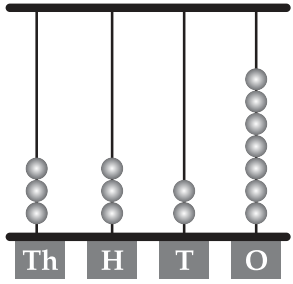
18. Arrange the digits 4023 in the place value chart as shown below :

Th	H	T	O
4	0	2	3

From the place value chart, we have
The place value of 4 = 4 thousands = 4000

Let Us Do-2B

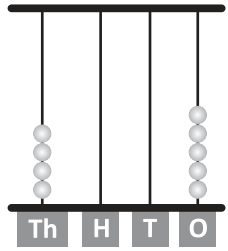
1. (b)



Th	H	T	O
3	3	2	7

Three thousands three hundreds and twenty-seven

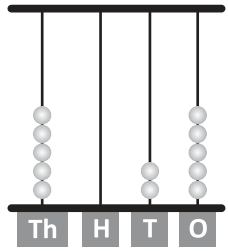
(c)



Th	H	T	O
4	0	0	5

Four thousands five

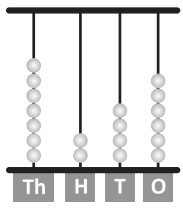
(d)



Th	H	T	O
5	0	2	5

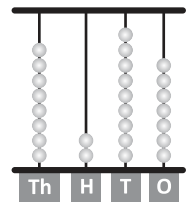
Five thousands twenty-five

2. (b)



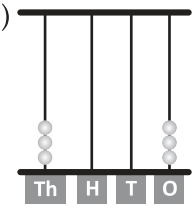
7246

(c)



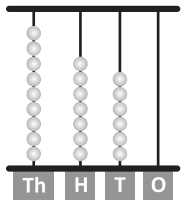
8297

(d)



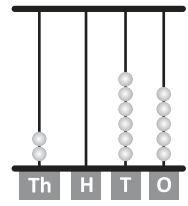
3003

(e)



9760

(f)



2065

Let Us Do-2C

1. (b) 5201 < 5210 (c) 3921 > 2999 (d) 8327 > 8295
(e) 9851 < 9855 (f) 6028 < 6031 (g) 10000 > 9875
(h) 4174 > 4170 (i) 3954 < 3959 (j) 3250 > 3198
(k) 7425 > 6899 (l) 4796 > 3419 (m) 6329 > 6192
(n) 7531 < 7800 (o) 7863 > 7859 (p) 3182 < 3187
(q) 8635 < 8638 (r) 9000 > 8999

2. (b) 9232, (9333) 8012, 8102, 8201, 8939

(c) 5550, 5055, 4031, 314, 3140, 4550
(d) 2561, 2165, 2651, 3100, 3209, 4139
(e) 5129, 4289, 5209, 5912, 5987, 6012

3. (b) 6003, 5999, 5736, 4807, 4888
(c) 3029, 3021, 4201, 2986, 298
(d) 525, 5205, 5025, 5250, 1523
(e) 7269, 7609, 8005, 7669, 7995

4. (a) 99, 726, 762, 4343, 5656, 7762, 8989
(b) 999, 9000, 9009, 9099, 9909, 9990, 9999
(c) 74, 98, 123, 783, 1865, 1987, 2356
(d) 5642, 8333, 8337, 8373, 8377, 8733, 8737
(e) 563, 635, 3546, 4250, 4356, 4635, 5436
(f) 571, 1001, 1375, 1573, 1795, 2003, 3157
(g) 3496, 3694, 3976, 4639, 4963, 6349, 6493
(h) 396, 639, 963, 2673, 5757, 5762, 6326

5. (a) 9801, 6765, 6754, 5235, 856, 786, 96
(b) 7351, 4029, 3586, 3562, 866, 752, 86
(c) 8000, 7891, 6000, 5333, 789, 600, 99
(d) 8305, 8035, 2986, 1234, 1046, 987, 756
(e) 9856, 8462, 7603, 5654, 991, 783, 98
(f) 8236, 6295, 2001, 1987, 985, 777, 77
(g) 9898, 9230, 8251, 7654, 923, 186, 89
(h) 4321, 4123, 4121, 3241, 2341, 276, 189
(i) 8923, 7789, 5431, 2466, 766, 92, 66
(j) 4026, 3889, 3210, 1287, 987, 897, 156

6. (a) 5155 to 5163 $\Rightarrow$ 5155, 5157, 5159, 5161, 5163
(b) 9320 to 9328 $\Rightarrow$ 9320, 9322, 9324, 9326, 9328
(c) 1096 to 1106 $\Rightarrow$ 1096, 1098, 1100, 1102, 1104, 1106
(d) 1500 to 1510 $\Rightarrow$ 1500, 1502, 1504, 1506, 1508, 1510

7. (a) 3880 to 3940 $\Rightarrow$ 3880, 3890, 3900, 3910, 3920, 3930, 3940
(b) 4886 to 4936 $\Rightarrow$ 4886, 4896, 4906, 4916, 4926, 4936
(c) 6993 to 7053 $\Rightarrow$ 6993, 7003, 7013, 7023, 7033, 7043, 7053
(d) 7980 to 8020 $\Rightarrow$ 7980, 7990, 8000, 8010, 8020

8. (a) 4202 to 4802 ⇒ 4202, 4302, 4402, 4502, 4602, 4702, 4802
(b) 1082 to 1582 ⇒ 1082, 1182, 1282, 1382, 1482, 1582
(c) 6801 to 7301 ⇒ 6801, 6901, 7001, 7101, 7201, 7301
(d) 6999 to 7499 ⇒ 6999, 7099, 7199, 7299, 7399, 7499

9. (a) 258 ⇒ 1258, 2258, 3258, 4258, 5258
(b) 1918 ⇒ 2918, 3918, 4918, 5918, 6918
(c) 2678 ⇒ 3678, 4678, 5678, 6678, 7678
(d) 116 ⇒ 1116, 2116, 3116, 4116, 5116

10. 4999, 5999, 6999, 7999, 8999 and 9999

11. (a) 1235, 1238, 1241, 1244, 1247, 1250, 1253, 1256
(b) 6372, 6377, 6382, 6387, 6392, 6397, 6402, 6407
(c) 8272, 8282, 8292, 8302, 8312, 8322, 8332, 8342
(d) 6397, 6497, 6597, 6697, 6797, 6897, 6997, 7097
(e) 6205, 6203, 6201, 6199, 6197, 6195, 6193, 6191
(f) 7935, 7925, 7915, 7905, 7895, 7885, 7875, 7865
(g) 9815, 8815, 7815, 6815, 5815, 4815, 3815, 2815

12. (a) 3000 (b) 1006 (c) 3960 (d) 10000
(e) 6976 (f) 7700 (g) 4992 (h) 3102
(i) 7150 (j) 4890 (k) 8000 (l) 6380

13. (a) 498 (b) 767 (c) 299 (d) 598
(e) 3998 (f) 9998 (g) 7987 (h) 8609
(i) 4399 (j) 9899 (k) 999 (l) 998

14. (a) The successor of a number is one more than the number.
(b) The predecessor of a number is one less than the number.
(c) The successor of 0 is 1.
(d) The predecessor of 1 is 0.
(e) The predecessor of the smallest 4-digit number is largest 3-digit number.
(f) The successor of the largest 4-digit number is the smallest 5-digit number.
(g) The predecessor of 10000 is 9999.
(h) The successor of 9999 is 10000.
(i) The number 1001 is the successor of 1000.
(j) The predecessor of 99 is 98.
(k) The number 10000 is the successor of 9999.

Addition

Let Us Do-3A

1.

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

2.

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

3.

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

4.

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

5.

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

6.

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

7.

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

8.

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

9.

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

10.

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

11.

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

12.

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

13.

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

14.

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

15.

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

16.

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

17. 3046 + 6250 = 9296

18. 5132 + 2645 = 7777

19. 6514 + 273 + 102 = 6889

20. 7263 + 1125 + 501 = 8889

Let Us Do-3B

1.

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

2.

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

3.

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

4.

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

5.

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

6.

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

7.

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

8.

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

9.

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

10.

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

11.

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

12.

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

13.

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

14.

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

15.

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

16.

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

17. 6999 + 998 + 89 = 8086

18. 3805 + 3986 + 732 = 8523

19. 8725 + 682 + 361 = 9768

20. 5312 + 2280 + 857 + 921 = 9370

21. 6508 + 1719 + 831 + 780 = 9838

22. 5086 + 1975 + 3104 + 99 = 10264

Let Us Do-3C

1. 3275 + 1768 = 1768 + 3275

2. 6498 + 1381 = 1381 + 6498

3. 1987 + 2654 = 2654 + 1987

4. 2001 + 1999 = 1999 + 2001

5. 0 + 2357 = 2357 + 0

6. 7891 + 0 = 7891

7. (1368 + 2452) + 1073 = 1368 + (2452 + 1073)

8. (1798 + 3265) + 2678 = 1798 + (3265 + 2678)

9. (2165 + 3978) + 459 = 2165 + (3978 + 459)

Let Us Do-3D

1. Cost of a washing machine = ₹ 5468

Cost of a geyser = ₹ 3645

Total cost of both articles = ₹ 5468 + ₹ 3645 = ₹ 9113

So, ₹ 9113 he has to pay for both the articles.

2. Total production of the bulbs in two days
= 5375 + 1987 = 7362
So, 7362 bulbs are produced altogether in two days.

3. Buckets of water got one colony = 4875
Buckets of water got other colony = 3986
Total buckets of water got both colonies
= 4875 + 3986 = 8861
So, 8861 buckets of water were supplied to both the colonies.

4. Smaller number = 7948
Difference of two numbers = 1876
Larger number = 7948 + 1876 = 9824

5. Tickets of cricket match sold on Saturday = 4794
Tickets of cricket match sold on Sunday = 3794
Total tickets of cricket match sold on both days
= 4794 + 3794 = 8588

6. The total monthly expenditure of Mohan = ₹ 7675
He save money = ₹ 1794
Monthly income = ₹ 7675 + ₹ 1794 = ₹ 9469
So, ₹ 9469 is his monthly income.

7. The cost of old scooter = ₹ 6976
He spent on its repair = ₹ 1987
He spend total money = ₹ 6976 + ₹ 1987 = ₹ 8963
So, ₹ 8963 did he spend altogether on the scooter.

8. The cost of a bicycle = ₹ 1765
The cost of a moped more than bicycle = ₹ 6356
The cost of a moped = ₹ 6356 + ₹ 1765 = ₹ 8121
So, the cost of the moped is ₹ 8121.

9. Bananas in his shop = 4583
Oranges in his shop = 2836
Pineapples in his shop = 1204
Total fruits in his shop = 4583 + 2836 + 1204 = 8623
So, 8623 fruits does he have in his shop.

10. The number of men = 3583
The number of women = 2809
The number of children = 1385
Total population = 3583 + 2809 + 1385 = 7777
So, 7777 population of this town.

11. The number of tickets sold in morning show = 876
The number of tickets sold in evening show = 789
The number of tickets sold in night show = 1098
Total number of tickets sold in these three shows
= 876 + 789 + 1098 = 2763
So, 2763 tickets were sold on that day.

12. A farmer produced wheat = 6813 kg
He produced barley = 2036 kg
He produced rice = 1092 kg
Total production = 6813 + 2036 + 1092 = 9941 kg
So, his total production in 2001 is 9941 kg.

13. Number of persons visited the zoo on Monday = 1385
Number of persons visited the zoo on Tuesday = 4893
Number of persons visited the zoo on Wednesday = 3706
Number of persons visited the zoo on Thursday = 836
Total number of persons visited the zoo in these four days
= 1385 + 4893 + 3706 + 836 = 10820
So, 10820 persons in all visited the zoo in four days.

14. Total number of votes were polled in election
= 3587 + 2874 + 708 = 7169
Votes were found invalid = 59
Total number of votes were polled = 7169 + 59 = 7228
So, 7228 votes were polled in all.

15. The number of total bottles makes in three days
= 2383 + 4809 + 1854 = 9046
So, 9046 bottles does the factory make in these days.

Subtraction

Let Us Do-4A

1.

	Th	H	T	O
	4	5	7	2
–	3	0	6	1
	1	5	1	1

2.

	Th	H	T	O
	6	4	0	5
–	2	3	0	4
	4	1	0	1

3.

	Th	H	T	O
	8	6	3	5
–	4	3	2	0
	4	3	1	5

4.

	Th	H	T	O
	9	8	0	4
–	6	5	0	3
	3	3	0	1

5.

	Th	H	T	O
	9	8	4	2
–	6	7	0	1
	3	1	4	1

6.

	H	T	O
	1	2	3	8
		–	2	3
	1	2	1	5

7.

	Th	H	T	O
	5	4	7	9
–	1	2	3	6
	4	2	4	3

8.

	Th	H	T	O
	6	8	3	7
–	4	5	0	0
	2	3	3	7

9.

	Th	H	T	O
	2	3	5	7
–	1	0	3	2
	1	3	2	5

10.

	Th	H	T	O
	8	9	3	1
–	6	5	0	1
	2	4	3	0

11.

	Th	H	T	O
	7	6	4	1
–	6	5	1	0
	1	1	3	1

12.

	Th	H	T	O
	6	6	6	6
–	3	6	5	0
	3	0	1	6

13.

	Th	H	T	O
	4	4	4	4
–	3	3	3	3
	1	1	1	1

14.

	Th	H	T	O
	9	6	7	3
–	5	3	5	1
	4	3	2	2

15.

	Th	H	T	O
	8	6	5	3
–	8	3	3	6
		3	1	7

16.

	Th	H	T	O
	7	6	3	6
–	7	4	6	9
		1	6	7

17.

	Th	H	T	O
	4	8	7	9
–	2	5	6	7
	2	3	1	2

18.

	Th	H	T	O
	5	6	7	3
–	5	6	6	9
	0	0	0	4

19.

	Th	H	T	O
	4	9	8	3
–	4	9	6	6
			1	7

20.

	Th	H	T	O
	9	8	7	6
–	3	4	0	5
	6	4	7	1

21.

	Th	H	T	O
		9	9	8	9
–	9	8	9	6
			9	3

22.

	Th	H	T	O
	5	5	6	5
–	5	5	3	9
			2	6

23. 7839 – 5627 = 2212

Hence, the difference between the given number is 2212.

24. 8985 – 5782 = 3203

Hence, the difference between the given number is 3203.

25. 8597 – 2356 = 6241

Hence, the difference between the given number is 6241.

Let Us Do-4B

1.

	Th	H	T	O
	8	5	6	3
–	4	9	5	2
	3	6	1	1

2.

	Th	H	T	O
	5	0	0	3
–	3	8	9	6
	1	1	0	7

3.

	Th	H	T	O
	2	2	2	2
–		7	7	7
	1	4	4	5

4.

	Th	H	T	O
	9	5	5	4
–	4	8	7	6
	4	6	7	8

5.

	Th	H	T	O
	3	6	8	7
–	3	2	1	9
		4	6	8

6.

	Th	H	T	O
	8	7	2	9
–	5	2	9	9
	3	4	3	0

7.

	Th	H	T	O
	8	0	0	0
–	5	4	3	2
	2	5	6	8

8.

	Th	H	T	O
	5	1	4	3
–	3	9	4	7
	1	1	9	6

9.

	Th	H	T	O
	8	0	0	6
–	7	4	4	8
		5	5	8

10.

	Th	H	T	O
	7	5	4	0
–	2	8	9	3
	4	6	4	7

11.

	Th	H	T	O
	9	0	0	0
–	7	4	8	9
	1	5	1	1

12.

	Th	H	T	O
	7	8	5	0
–	6	9	8	6
		8	6	4

13.

	Th	H	T	O
	7	2	6	3
–	6	8	9	4
		3	6	9

14.

	Th	H	T	O
	7	8	6	5
–	4	9	8	4
	2	8	8	1

15.

	Th	H	T	O
	6	0	0	0
–	4	9	8	7
	1	0	1	3

16.

	Th	H	T	O
	8	1	0	3
–	7	9	8	7
		1	1	6

17.

	Th	H	T	O
	4	0	0	6
–	3	1	2	9
		8	7	7

18.

	Th	H	T	O
	9	0	2	3
–	7	7	4	8
	1	2	7	5

19.

	Th	H	T	O
	7	0	1	3
–	5	1	6	8
	1	8	4	5

		Th	H	T	O	
Smaller number ⟶		5	1	6	8	
Answer ⟶	+	1	8	4	5	
		7	0	1	3	⟵ Larger number

Hence, the answer is correct.

20.

	Th	H	T	O
	4	1	3	1
–	3	7	6	5
		3	6	6

		Th	H	T	O	
Smaller number ⟶		3	7	6	5	
Answer ⟶	+	3	6	6		
		4	1	3	1	⟵ Larger number

Hence, the answer is correct.

21.

	Th	H	T	O
	7	0	0	4
–	4	3	4	8
	2	6	5	6

		Th	H	T	O	
Smaller number ⟶		4	3	4	8	
Answer ⟶	+	2	6	5	6	
		7	0	0	4	⟵ Larger number

Hence, the answer is correct.

22.

	Th	H	T	O
	5	6	0	0
–	4	9	7	5
		6	2	5

		Th	H	T	O	
Smaller number ⟶		4	9	7	5	
Answer ⟶	+		6	2	5	
		5	6	0	0	← Larger number

Hence, the answer is correct.

23.

	Th	H	T	O
	5	1	6	4
–	2	3	7	5
	2	7	8	9

		Th	H	T	O	
Smaller number ⟶		2	3	7	5	
Answer ⟶	+	2	7	8	9	
		5	1	6	4	← Larger number

Hence, the answer is correct.

24.

	Th	H	T	O
	9	6	5	0
–	6	4	6	5
	3	1	8	5

	Th	H	T	O	
Smaller number ⟶	6	4	6	5	
Answer ⟶	+ 3	1	8	5	
	9	6	5	0	← Larger number

Hence, the answer is correct.

25.

	Th	H	T	O
	7	1	0	0
–	2	3	7	6
	4	7	2	4

	Th	H	T	O	
Smaller number ⟶	2	3	7	6	
Answer ⟶	+ 4	7	2	4	
	7	1	0	0	← Larger number

Hence, the answer is correct.

26.

	Th	H	T	O
	7	7	7	7
–	3	8	8	8
	3	8	8	9

	Th	H	T	O	
Smaller number ⟶	3	8	8	8	
Answer ⟶	+ 3	8	8	9	
	7	7	7	7	← Larger number

Hence, the answer is correct.

27. 6000 – 3953 = 2047

28. 7936 – 5798 = 2138

29. 3000 – 1987 = 1013

30.

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

31.

	Th	H	T	O
	8	[3]	6	1
–	[4]	5	[7]	8
	3	7	8	[3]

32.

	Th	H	T	O
	7	8	6	5
–	4	9	8	4
	2	8	8	1

33.

	Th	H	T	O
	4	3	2	6
–	2	2	1	5
	2	1	1	1

34.

	Th	H	T	O
	6	2	1	5
–	2	0	9	3
	4	1	2	2

35.

	Th	H	T	O
	9	5	3	0
–	6	7	8	1
	2	7	4	9

Let Us Do-4C

1. A carpenter had nails = 6530
He used = 4849
Nails left = 6530 – 4849 = 1681

2. Total number of students = 3250
The number of boys out of them = 1867
The number of girls = 3250 – 1867 = 1383

3. A farmer spent on a gobar gas plant = ₹ 4025
He received a loan from the bank = ₹ 2599
He spend money from his pocket = ₹ 4025 – ₹ 2599
= ₹ 1426
So, ₹ 1426 did he spend from his pocket.

4. The population of a certain locality in 1999 = 3479
It is increased in the next year 2000 = 3853
Increase the population in one year = 3853 – 3479 = 374
So, the increase in population in one year is 374.

5. Total number of bags of cement = 4312
Out of them the bags were sold out = 3425
Bags left in godown = 4312 – 3425 = 887
So, 887 bags were left in the godown.

6. The sum of two numbers = 9806
One of the number is = 6938
The other number = 9806 – 6938 = 2868
So, the other number is 2868.

7. Seating capacity of the stadium = 3549
Increase its capacity = 9657
New seats have to be added = 9657 – 3549 = 6108
So, 6018 new seats have to be added.

8. Number of persons visited the zoo = 3506
Out of these, adults persons = 2738
Out of these, the number of children = 3506 – 2738 = 768
So, 768 children visited the zoo that day.

9. Difference of 3506 and 2919 = 3506 – 2919 = 587
On subtracting 587 from 4000 = 4000 – 587 = 3413

10. Total number of seats in a theater = 3800
On Monday, persons saw the show = 2739
Seats remained vacant = 3800 – 2739 = 1061
So, 1061 seats remained vacant.

11. The difference between two numbers = 2895
Larger number = 8560
Smaller number = 8560 – 2895 = 5665
So, the smaller number is 5665.

12. Total number of students in a school = 4600
the number of boys = 2296
the number of girls = 4600 – 2296 = 2304
So, 2304 girls in the school.

13. Total number of bags of wheat in a godown = 5000
Out of these, bags taken out = 3529
Bags will remain = 5000 – 3529 = 1471
So, 1471 bags will remain in the godown.

14. The sum of 8312 and 789 = 8312 + 789 = 9101
The difference of 8312 and 789 = 8312 – 789 = 7523
Difference of their sum = 9101 – 7523 = 1578

15. The reading of the speedometer of a car at beginning = 7314
The reading of the speedometer of a car at the end = 8100
Car travel in kilometres = 8100 – 7314 = 786
So, 786 kilometres did the car travel.

16. A man bought the sheets of paper = 8925
He used sheets to make exercise books = 6876
Sheets of paper were left = 8925 – 6876 = 2049
So, 2049 sheets of paper were left unused.

17. The total cost of a sewing machine and a cycle = ₹ 6760
The cost of sewing machine = ₹ 2975
The cost of cycle = ₹ 6760 – ₹ 2975 = ₹ 3785
So, the cost of the cycle is ₹ 3785.

18. Naresh had amount in his bank account = ₹ 8515
He took out amount for buying a carpet = ₹ 3986
Money left in his account = ₹ 8515 – ₹ 3986 = ₹ 4529
So, ₹ 4529 was left in his account.

Let Us Do-4D

1. First add the numbers with '+' sign = 4617 + 567 = 5184
Now, subtract the number with '–' sign = 5184 – 2779 = 2405

2. First add the numbers with '+' sign = 2369 + 6374 = 8743
Now, subtract the number with '–' sign = 8743 – 7586 = 1157

3. First add the numbers with '+' sign = 6465 + 2319 = 8784
Then, add the numbers with '–' sign = 6734 + 1540 = 8274
Now, subtract the second sum from the first sum
= 8784 – 8274 = 510

4. First take the number with '+' sign = 7300
Then, add the numbers with '–' sign
= 3450 + 796 + 1497 = 5743
Now, subtract the sum from the number
= 7300 – 5743 = 1557

5. First add the numbers with '+' sign = 7565 + 2222 = 9787
Then, add the numbers with '–' sign = 4242 + 1888 = 6130
Now, subtract second sum from the first sum
= 9787 – 6130 = 3657

6. First add the numbers with '+' sign = 5825 + 574 = 6399
Then, add the numbers with '–' sign = 1376 + 2809 = 4185
Now, subtract the second sum from the first sum
= 6399 – 4185 = 2214

7. First add the numbers with '+' sign = 7643 + 1465 = 9108
Then, add the numbers with '–' sign = 2369 + 999 = 3368
Now, subtract the second sum from the first sum
= 9108 – 3368 = 5740

8. First add the numbers with '+' sign = 8500 + 939 = 9439
Then, add the numbers with '–' sign = 7838 + 1243 = 9081
Now, subtract the second sum from the first sum
= 9439 – 9081 = 358

9. The greatest four digits number = 9999
The sum of 1000 and 4444 = 5444
Therefore, 9999 – 5444 = 4555

10. Total number of exercise books = 7000
Exercise books sold in two days = 3510 + 2892 = 6402
Books left = 7000 – 6402 = 598
So, 598 exercise books were left in the book shop.

11. The amount in bank account on 1st day = ₹ 7835
She deposited amount on 4th day = ₹ 2067
Now, total amount in her bank account
= ₹ 7835 + ₹ 2067 = ₹ 9902
She withdrew amount on the last day = ₹ 4595
Now, the amount on the last day = ₹ 9902 – ₹ 4595 = ₹ 5307
So, ₹ 5307 was there in her account after the withdrawal.

12. Money on Monday = ₹ 3232
Money on Tuesday = ₹ 6336
Total money spent = ₹ 3232 + ₹ 6336 = ₹ 9568
I had money with me in the beginning = ₹ 9999
Now, still left money = ₹ 9999 – ₹ 9568 = ₹ 431

13. Sumeet had to travel = 6325 km
He travelled by train = 3678 km

He travelled by bus = 1354 km
He travelled by train and bus
= 3678 km + 1354 km = 5032 km
He travelled by car = 6325 km – 5032 km = 1293 km
So, he travel 1293 km by car.

14. The greatest 4-digit number = 9999
The greatest 3-digit number = 999
The greatest 2-digit number = 99
The sum of greatest 3-digit and 2-digit numbers
= 999 + 99 = 1098
Now, subtract the sum of greatest 3-digit and 2-digit numbers from the greatest 4-digit
number = 9999 – 1098 = 8901

15. Total number of books in a library = 7423
The number of books on Science = 1637
The number of books on Mathematics = 1918
The sum of books on Science and Mathematics
= 1637 + 1918 = 3555
The number of books on other subject = 7423 – 3555 = 3868
So, 3868 books are there on other subjects.

16. The greatest number of four digits = 9999
The sum of 4516 and 3984 = 4516 + 3984 = 8500
Now, subtract the 8500 from 9999 = 9999 – 8500 = 1499

17. Total population of a town = 8215
Population of men = 3438
Population of women = 2859
Population of men and women = 3438 + 2859 = 6297
Population of children = 8215 – 6297 = 1918
So, 1918 children are there in the town.

18. The sum of 3029 and 187 = 3029 + 187 = 3216
The difference of 8704 and 2578 = 8704 – 2578 = 6126
Now, subtract = 6126 – 3216 = 2910

19. The sum of three numbers = 9010
The sum of two numbers = 3768 + 1697 = 5465
The third number = 9010 – 5465 = 3545
So, the third number is 3545.

20. Total amount donated to flood relief fund = ₹ 7000
Mr. Gupta donated to flood relief fund = ₹ 2051
Mr. Sinha donated to flood relief fund
= ₹ 2051 + ₹ 151 = ₹ 2202
Amount donated by Mr. Gupta and Mr. Sinha
= ₹ 2051 + ₹ 2202 = ₹ 4253
Mr. Jain should be donated to flood relief fund
= ₹ 7000 – ₹ 4253 = ₹ 2747
So, ₹ 2747 should be donated by Mr. Jain to make ₹ 7000.

21. The smallest four digits number = 1000
The sum of 99 + 676 = 775
Now, subtract 1000 – 775 = 225

22. Smallest four digits number = 1000
Smallest three digits number = 100
The sum of smallest four and three digits numbers
= 1000 + 100 = 1100
Now, subtract 7000 – 1100 = 5900

23. The sum of three numbers = 8976
The sum of two numbers = 999 + 4973 = 5972
The third number = 8976 – 5972 = 3004

24. Sumit has money = ₹ 9672
Amit has money = ₹ 8796
$\because$ 9672 > 8796
$\because$ Sumit has more money = ₹ 9672 – ₹ 8796 = ₹ 876
So, Sumit has more money of ₹ 876.

Multiplication Tables Up to 10 × 20

Let Us Do-5A

1. (b) 4 × 12 = **48** (c) 5 × 18 = **90** (d) 7 × 18 = **126**
(e) 3 × 20 = **60** (f) 9 × 19 = **171** (g) 7 × 16 = **112**
(h) 10 × 16 = **160** (i) 4 × 17 = **68** (j) 5 × 17 = **85**

2. (b) **10** × 12 = 120 (c) **8** × 12 = 96 (d) **9** × 13 = 117
(e) **8** × 13 = 104 (f) **9** × 14 = 126 (g) **7** × 14 = 98
(h) **4** × 16 = 64 (i) **7** × 20 = 140 (j) **10** × 18 = 180

3. The gardener planted trees in 1 row = 9
He planted trees in 11 rows = 9 × 11 = 99
So, 99 trees has he planted in 11 rows.

4. Total number of students = 16
Each boy gets exercise books = 4
Total number of exercise books will be distributed
= 16 × 4 = 64
So, 64 exercise books will be distributed among them.

5. Subhash reads in 1 day = 7 hours
He reads in 17 days = 7 × 17 = 119 hours
So, 119 hours does he read in 17 days.

6. Number of articles in 1 dozen = 12
Number of articles in 6 dozen = 12 × 6 = 72
So, 72 articles will there be in 6 dozens.

7. The number of children in 1 group = 20
The number of children in 9 groups = 20 × 9 = 180
So, 180 children are there in 9 groups.

8. The number of bananas in 1 bunch = 12
The number of bananas in 9 bunches = 12 × 9 = 108
So, 108 bananas will thee be in 9 bunches.

9. Mohan plays in 1 day = 6 hours
He play in 13 days = 6 × 13 = 78 hours
So, 78 hours will he play in 13 days.

10. Total number of friends = 15
She gave toffees to each friend = 7
Total number of toffees did she distribute = 15 × 7 = 105
So, 105 toffees did she distribute to her friends.

Multiplication

Let Us Do-6A

1.

Th	H	T	O
	4	3	2
		×	2
	8	6	4

2.

Th	H	T	O
	2	1	2
		×	3
	6	3	6

3.

Th	H	T	O
	2	2	1
		×	4
	8	8	4

4.

Th	H	T	O
4	1	2	3
		×	2
8	2	4	6

5.

Th	H	T	O
3	2	3	1
		×	3
9	6	9	3

6.

Th	H	T	O
2	2	2	2
		×	4
8	8	8	8

7.

Th	H	T	O
5	4	1	2
		×	7
37	8	8	4

8.

Th	H	T	O
	5	3	2
		×	5
2	6	6	0

9.

Th	H	T	O
2	1	5	6
		×	5
10	7	8	0

10.

Th	H	T	O
2	6	8	7
		×	3
8	0	6	1

11.

Th	H	T	O
1	6	5	0
		×	6
9	9	0	0

12.

Th	H	T	O
1	2	7	3
		×	7
8	9	1	1

13.

Th	H	T	O
1	4	3	7
		×	6
8	6	2	2

14.

Th	H	T	O
3	1	7	5
		×	8
25	4	0	0

15.

Th	H	T	O
	9	7	2
		×	9
8	7	4	8

16.

Th	H	T	O
	7	8	6
		×	6
4	7	1	6

17.

Th	H	T	O
	8	4	7
		×	4
3	3	8	8

18.

Th	H	T	O
	9	6	3
		×	5
4	8	1	5

19.

Th	H	T	O
5	3	4	6
		×	6
32	0	7	6

20.

Th	H	T	O
1	3	9	7
		×	6
8	3	8	2

Let Us Do-6B

1. 29 × 10 = 29 × 1 ten = 29 tens = 290
2. 415 × 10 = 415 × 1 ten = 415 tens = 4150
3. 63 × 100 = 63 × 1 hundred = 63 hundreds = 6300
4. 56 × 100 = 56 × 1 hundred = 56 hundreds = 5600
5. 43 × 20 = 43 × 2 tens = 86 tens = 860
6. 16 × 20 = 16 × 2 tens = 32 tens = 320
7. 33 × 20 = 33 × 2 tens = 66 tens = 660
8. 36 × 20 = 36 × 2 tens = 72 tens = 720
9. 56 × 20 = 56 × 2 tens = 112 tens = 1120
10. 67 × 20 = 67 × 2 tens = 134 tens 1340
11. 6 × 900 = 6 × 9 hundreds = 54 hundreds = 5400
12. 9 × 700 = 9 × 7 hundreds = 63 hundreds = 6300
13. 23 × 30 = 23 × 3 tens = 69 tens = 690
14. 46 × 30 = 46 × 3 tens = 138 tens = 1380
15. 52 × 30 = 52 × 3 tens = 156 tens = 1560
16. 77 × 20 = 77 × 2 tens = 154 tens = 1540
17. 95 × 300 = 95 × 3 hundreds = 285 hundreds = 28500
18. 17 × 40 = 17 × 4 tens = 68 tens = 680
19. 27 × 40 = 27 × 4 tens = 108 tens = 1080
20. 37 × 40 = 37 × 4 tens = 148 tens = 1480
21. 73 × 40 = 73 × 4 tens = 292 tens = 2920
22. 126 × 400 = 126 × 4 hundreds = 504 hundreds = 50400
23. 150 × 400 = 150 × 4 hundreds = 600 hundreds = 60000
24. 70 × 700 = 70 × 7 hundreds = 490 hundreds = 49000
25. 80 × 80 = 80 × 8 tens = 640 tens = 6400

25. $80 \times 80 = 80 \times 8$ tens $= 640$ tens $= 6400$
26. $78 \times 80 = 78 \times 8$ tens $= 624$ tens $= 6240$
27. $65 \times 80 = 65 \times 8$ tens $= 520$ tens $= 5200$
28. $51 \times 80 = 51 \times 8$ tens $= 408$ tens $= 4080$
29. $37 \times 700 = 37 \times 7$ hundreds $= 259$ hundreds $= 25900$
30. $93 \times 700 = 93 \times 7$ hundreds $= 651$ hundreds $= 65100$
31. $91 \times 60 = 91 \times 6$ tens $= 546$ tens $= 5460$
32. $125 \times 60 = 125 \times 6$ tens $= 750$ tens $= 7500$

Let Us Do-6C

1. $15 \times \underline{38} = 38 \times 15$
2. $\underline{26} \times 42 = 42 \times 26$
3. $78 \times 39 = 39 \times \underline{78}$
4. $42 \times 38 = 38 \times \underline{42}$
5. $65 \times 35 = \underline{35} \times 65$
6. $98 \times \underline{91} = 91 \times 98$
7. $36 \times 42 = 42 \times \underline{36}$
8. $273 \times \underline{68} = 68 \times 273$
9. $173 \times \underline{1} = 173$
10. $96 \times 0 = \underline{0}$
11. $\underline{1} \times 379 = 379$
12. $801 \times 1 = \underline{801}$
13. $436 \times \underline{1} = 436$
14. $256 \times \underline{0} = 0$
15. $0 = 946 \times \underline{0}$
16. $9 \times (7 \times 6) = (9 \times 7) \times \underline{6}$
17. $\underline{3} \times (5 \times 7) = (3 \times 5) \times 7$
18. $7 \times (3 \times 6) = (7 \times \underline{3}) \times 6$
19. $(9 \times \underline{6}) \times 10 = 9 \times (6 \times 10)$
20. $9 \times (8 \times 10) = (9 \times 8) \times \underline{10}$
21. $4 \times (6 + 7) = (4 \times 6) + (4 \times \underline{7})$
22. $9 \times (7 + 8) = (9 \times \underline{7}) + (9 \times 8)$

Let Us Do-6D

1. $47 \times 31 = 47 \times (30 + 1)$
$= (47 \times 30) + (47 \times 1)$ [By Distributive Property]
$= 1410 + 47 = 1457$ [Multiplication of 30]
Hence, $47 \times 31 = 1457$

2. $79 \times 67 = 79 \times (60 + 7)$
$= (79 \times 60) + (79 \times 7)$ [By Distributive Property]
$= 4740 + 553 = 5293$ [Multiplication of 60]
Hence, $79 \times 67 = 5293$

3. $85 \times 27 = 85 \times (20 + 7)$
$= (85 \times 20) + (85 \times 7)$ [By Distributive Property]

= 1700 + 595 = 2295 [Multiplication of 20]

Hence, 85 × 27 = 2295

4. 242 × 24 = 242 × (20 + 4)

= (242 × 20) + (242 × 4) [By Distributive Property]

= 4840 + 968 = 5808 [Multiplication of 20]

Hence, 242 × 24 = 5808

5. 500 × 17 = 500 × (10 + 7)

= (500 × 10) + (500 × 7) [By Distributive Property]

= 5000 + 3500 = 8500 [Multiplication of 10]

Hence, 500 × 17 = 8500

6. 88 × 105 = 88 × (100 + 5)

= (88 × 100) + (88 × 5) [By Distributive Property]

= 8800 + 440 = 9240 [Multiplication of 100]

Hence, 88 × 105 = 9240

7. 921 × 11 = 921 × (10 + 1)

= (921 × 10) + (921 × 1) [By Distributive Property]

= 9210 + 921 = 10131 [Multiplication of 10]

Hence, 921 × 11 = 10131

8. 47 × 30 = 30 × 47 = 30 × (40 + 7)

= (30 × 40) + (30 × 7) [By Distributive Property]

= 1200 + 210 = 1410 [Multiplication of 40]

Hence, 47 × 30 = 1410

9.

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

10.

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

11.

Th	H	T	O
	2	7	1
	×	4	6
1	6	2	6
+ 10	8	4	0
12	4	6	6

12.

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

13.

Th	H	T	O
	1	8	2
	×	6	4
	7	2	8
+ 10	9	2	0
11	6	4	8

14.

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

15.

Th	H	T	O
	3	7	4
	×	2	8
2	9	9	2
+ 7	4	8	0
10	4	7	2

16.

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

17.

Th	H	T	O
	2	9	9
	×	3	7
2	0	9	3
+ 8	9	7	0
11	0	6	3

18.

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

19.

Th	H	T	O
	7	1	9
	×	1	9
6	4	7	1
+ 7	1	9	0
13	6	6	1

20.

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

Let Us Do-6E

1. The number of oranges in one basket = 62
The number of oranges in 60 baskets = 62 × 60 = 3720
So, 3720 oranges will there be in 60 baskets.

2. The number of buttons in a packet = 148
The number of buttons in 64 such packets = 148 × 64 = 9472
So, 9472 buttons are there in 64 such packets.

3. The number of persons sit in one bus = 62
The number of persons can sit in 72 buses = 62 × 72 = 4464
So, 4464 persons can sit in 72 buses.

4. The cost of one cooler = ₹ 537
The cost of 18 coolers = 537 × 18 = ₹ 9666
So, the cost of 18 coolers is ₹ 9666.

5. Number of slabs in a chocolate box = 36
Number of slabs in 65 chocolate boxes = 36 × 65 = 2340
So, 2340 slabs will there be in 65 boxes.

6. The number of screws produces in one hour = 246
The number of screws will produce in 22 hours
= 246 × 22 = 5412
So, 5412 screws will it produce in 22 hours.

7. The weighs of a rice bag = 88 kg
The weight of 53 rice bags = 88 × 53 = 4664 kg
So, the weight of 53 bags of rice is 4664 kg.

8. The number of files in an almirah = 247
The number of files in 32 almirahs = 247 × 32 = 7904
So, 7904 files in the office.

9. The number of newspapers delivers in each day = 257
The number of newspapers delivers in 21 days
= 257 × 21 = 5397
So, 5397 newspapers does he deliver in 21 days.

10. The number of children carry in a bus = 52
The number of children carry in 33 buses = 52 × 33 = 1716
So, 1716 children went on picnic in 33 buses.

11. The number of seats in each coach = 165
The number of seats in 23 coaches = 165 × 23 = 3795
So, 3795 people can have seats on the train.

12. The number of books contains in a packet = 156
The number of books contains in 42 packets = 156 × 42 = 6552
So, 6552 books will 42 packets contain.

Division

Let Us Do-7A

1. (a) 12 ÷ 4

$$\begin{array}{r} 1\ \ 2 \\ -\ \ 4 \\ \hline \end{array} \leftarrow \text{First time}$$

$$\begin{array}{rr} & 8 \\ - & 4 \\ \hline & 4 \\ - & 4 \\ \hline & 0 \end{array}$$ ← Second time ← Third time

When we divide 12 by 4, the answer is 3.

(b) $16 \div 4$

$$\begin{array}{rr} 1 & 6 \\ - & 4 \\ \hline 1 & 2 \\ - & 4 \\ \hline & 8 \\ - & 4 \\ \hline & 4 \\ - & 4 \\ \hline & 0 \end{array}$$ ← First time ← Second time ← Third time ← Fourth time

When we divide 16 by 4, the answer is 4.

(c) $18 \div 2$

$$\begin{array}{rr} 1 & 8 \\ - & 2 \\ \hline 1 & 6 \\ - & 2 \\ \hline 1 & 4 \\ - & 2 \\ \hline 1 & 2 \\ - & 2 \\ \hline 1 & 0 \\ - & 2 \\ \hline & 8 \\ - & 2 \\ \hline & 6 \\ - & 2 \\ \hline \end{array}$$ ← First time ← Second time ← Third time ← Fourth time ← Fifth time ← Sixth time ← Seventh time

$$
\begin{array}{rl}
\hline
4 & \\
-\ 2 & \leftarrow \text{Eighth time} \\
\hline
2 & \\
-\ 2 & \leftarrow \text{Ninth time} \\
\hline
0 &
\end{array}
$$

When we divide 18 by 2, the answer is 9.

(d) $32 \div 4$

$$
\begin{array}{rl}
3\ 2 & \\
-\ 4 & \leftarrow \text{First time} \\
\hline
2\ 8 & \\
-\ 4 & \leftarrow \text{Second time} \\
\hline
2\ 4 & \\
-\ 4 & \leftarrow \text{Third time} \\
\hline
2\ 0 & \\
-\ 4 & \leftarrow \text{Fourth time} \\
\hline
1\ 6 & \\
-\ 4 & \leftarrow \text{Fifth time} \\
\hline
1\ 2 & \\
-\ 4 & \leftarrow \text{Sixth time} \\
\hline
8 & \\
-\ 4 & \leftarrow \text{Seventh time} \\
\hline
4 & \\
-\ 4 & \leftarrow \text{Eighth time} \\
\hline
0 &
\end{array}
$$

When we divide 32 by 4, the answer is 8.

(e) $54 \div 6$

$$
\begin{array}{rl}
5\ 4 & \\
-\ 6 & \leftarrow \text{First time} \\
\hline
4\ 8 & \\
-\ 6 & \leftarrow \text{Second time} \\
\hline
4\ 2 &
\end{array}
$$

$$\begin{array}{rl} -\ 6 & \leftarrow \text{Third time} \\ \hline 3\ 6 & \\ -\ 6 & \leftarrow \text{Fourth time} \\ \hline 3\ 0 & \\ -\ 6 & \leftarrow \text{Fifth time} \\ \hline 2\ 4 & \\ -\ 6 & \leftarrow \text{Sixth time} \\ \hline 1\ 8 & \\ -\ 6 & \leftarrow \text{Seventh time} \\ \hline 1\ 2 & \\ -\ 6 & \leftarrow \text{Eighth time} \\ \hline 6 & \\ -\ 6 & \leftarrow \text{Ninth time} \\ \hline 0 & \end{array}$$

When we divide 54 by 6, the answer is 9.

(f) $30 \div 6$

$$\begin{array}{rl} 3\ 0 & \\ -\ 6 & \leftarrow \text{First time} \\ \hline 2\ 4 & \\ -\ 6 & \leftarrow \text{Second time} \\ \hline 1\ 8 & \\ -\ 6 & \leftarrow \text{Third time} \\ \hline 1\ 2 & \\ -\ 6 & \leftarrow \text{Fourth time} \\ \hline 6 & \\ -\ 6 & \leftarrow \text{Fifth time} \\ \hline 0 & \end{array}$$

When we divide 30 by 6, the answer is 5.

(g) $21 \div 3$

$$\begin{array}{rl} 2\ 1 & \\ -\ 3 & \leftarrow \text{First time} \\ \hline 1\ 8 & \\ -\ 3 & \leftarrow \text{Second time} \\ \hline \end{array}$$

$$
\begin{array}{r}
1\ 5 \\
-\ 3 \quad \leftarrow \text{Third time} \\
\hline
1\ 2 \\
-\ 3 \quad \leftarrow \text{Fourth time} \\
\hline
\ \ 9 \\
-\ 3 \quad \leftarrow \text{Fifth time} \\
\hline
\ \ 6 \\
-\ 3 \quad \leftarrow \text{Sixth time} \\
\hline
\ \ 3 \\
-\ 3 \quad \leftarrow \text{Seventh time} \\
\hline
\ \ 0
\end{array}
$$

When we divide 21 by 3, the answer is 7.

(h) $21 \div 7$

$$
\begin{array}{r}
2\ 1 \\
-\ 7 \quad \leftarrow \text{First time} \\
\hline
1\ 4 \\
-\ 7 \quad \leftarrow \text{Second time} \\
\hline
\ \ 7 \\
-\ 7 \quad \leftarrow \text{Third time} \\
\hline
\ \ 0
\end{array}
$$

When we divide 21 by 7, the answer is 3.

2. (a) $25 \div 5 = 5 \Rightarrow$ Dividend = 25, Divisor = 5 and quotient = 5

(b) $54 \div 6 = 9 \Rightarrow$ Dividend = 54, Divisor = 6 and quotient = 9

(c) $63 \div 7 = 9 \Rightarrow$ Dividend = 63, Divisor = 7 and quotient = 9

(d) $63 \div 9 = 7 \Rightarrow$ Dividend = 63, Divisor = 9 and quotient = 7

(e) $36 \div 6 = 6 \Rightarrow$ Dividend = 36, Divisor = 6 and quotient = 6

(f) $24 \div 6 = 4 \Rightarrow$ Dividend = 24, Divisor = 6 and quotient = 4

(g) $52 \div 13 = 4 \Rightarrow$ Dividend = 52,
Divisor = 13 and quotient = 4

(h) $32 \div 16 = 2 \Rightarrow$ Dividend = 32,
Divisor = 16 and quotient = 2

3.	**Multiplication fact**	**Division facts**	
(a)	$6 \times 4 = 24$	(i) $24 \div 6 = 4$	(ii) $24 \div 4 = 6$
(b)	$5 \times 6 = 30$	(i) $30 \div 5 = 6$	(ii) $30 \div 6 = 5$
(c)	$2 \times 5 = 10$	(i) $10 \div 2 = 5$	(ii) $10 \div 5 = 2$
(d)	$3 \times 3 = 9$	(i) $9 \div 3 = 3$	
(e)	$5 \times 5 = 25$	(i) $25 \div 5 = 5$	
(f)	$6 \times 6 = 36$	(i) $36 \div 6 = 6$	
(g)	$8 \times 6 = 48$	(i) $48 \div 8 = 6$	(ii) $48 \div 6 = 8$
(h)	$9 \times 6 = 54$	(i) $54 \div 9 = 6$	(ii) $54 \div 6 = 9$

4.	**Division fact**	**Multiplication facts**	
(a)	$21 \div 7 = 3$	(i) $3 \times 7 = 21$	(ii) $7 \times 3 = 21$
(b)	$27 \div 9 = 3$	(i) $3 \times 9 = 27$	(ii) $9 \times 3 = 27$
(c)	$54 \div 9 = 6$	(i) $6 \times 9 = 54$	(ii) $9 \times 6 = 54$
(d)	$49 \div 7 = 7$	(i) $7 \times 7 = 49$	
(e)	$7 \div 7 = 1$	(i) $1 \times 7 = 7$	(ii) $7 \times 1 = 7$
(f)	$81 \div 9 = 9$	(i) $9 \times 9 = 81$	
(g)	$56 \div 7 = 8$	(i) $8 \times 7 = 56$	(ii) $7 \times 8 = 56$
(h)	$18 \div 1 = 18$	(i) $18 \times 1 = 18$	(ii) $1 \times 18 = 18$

5. (a) $36 \div 4 = \underline{9}$ (b) $\underline{48} \div 6 = 8$ (c) $24 \div 3 = \underline{8}$

(d) $25 \div 5 = \underline{5}$ (e) $\underline{49} \div 7 = 7$ (f) $\underline{63} \div 9 = 7$

(g) $64 \div \underline{8} = 8$ (h) $81 \div \underline{9} = 9$

Let Us Do-7B

1. $0 \div 3 = \underline{0}$	**2.** $\underline{0} \div 6 = 0$	**3.** $11 \div \underline{1} = 11$
4. $\underline{0} \div 9 = 0$	**5.** $10 \div \underline{1} = 10$	**6.** $4 \div \underline{1} = 4$
7. $\underline{5} \div 5 = 1$	**8.** $0 \div 15 = \underline{0}$	**9.** $0 \div 36 = \underline{0}$
10. $15 \div 15 = \underline{1}$	**11.** $136 \div 1 = \underline{136}$	**12.** $156 \div 156 = \underline{1}$
13. $1 \div 1 = \underline{1}$	**14.** $\underline{9} \div 1 = 9$	**15.** $11 \div \underline{1} = 11$

Let Us Do-7C

1.
$$\begin{array}{r} 4 \\ 3\overline{)\,12} \\ -12 \\ \hline 0 \end{array}$$
$\therefore\ 12 \div 3 = 4$

2.
$$\begin{array}{r} 4 \\ 4\overline{)\,16} \\ -16 \\ \hline 0 \end{array}$$
$\therefore\ 16 \div 4 = 4$

3.
$$\begin{array}{r} 4 \\ 6\overline{)\,24} \\ -24 \\ \hline 0 \end{array}$$
$\therefore\ 24 \div 6 = 4$

4.
$$\begin{array}{r} 6 \\ 6\overline{)\,36} \\ -36 \\ \hline 0 \end{array}$$
$\therefore\ 36 \div 6 = 6$

5.
$$\begin{array}{r} 7 \\ 8\overline{)\,56} \\ -56 \\ \hline 0 \end{array}$$
$\therefore\ 56 \div 8 = 7$

6.
$$\begin{array}{r} 8 \\ 8\overline{)\,64} \\ -64 \\ \hline 0 \end{array}$$
$\therefore\ 64 \div 8 = 8$

7.
$$\begin{array}{r} 7 \\ 9\overline{)\,63} \\ -63 \\ \hline 0 \end{array}$$
$\therefore\ 63 \div 9 = 7$

8.
$$\begin{array}{r} 6 \\ 7\overline{)\,42} \\ -42 \\ \hline 0 \end{array}$$
$\therefore\ 42 \div 7 = 6$

9.
$$\begin{array}{r} 5 \\ 9\overline{)\,45} \\ -45 \\ \hline 0 \end{array}$$
$\therefore\ 45 \div 9 = 5$

10.
$$\begin{array}{r} 11 \\ 5\overline{)\,55} \\ -5\downarrow \\ \hline 5 \\ -5 \\ \hline 0 \end{array}$$
$\therefore\ 55 \div 5 = 11$

11.
$$\begin{array}{r} 6 \\ 5\overline{)\,30} \\ -30 \\ \hline 0 \end{array}$$
$\therefore\ 30 \div 5 = 6$

12.
$$\begin{array}{r} 9 \\ 9\overline{)\,81} \\ -81 \\ \hline 0 \end{array}$$
$\therefore\ 81 \div 9 = 9$

Let Us Do-7D

1. $84 \div 2$

$$\begin{array}{r} \text{T}\ \text{O} \\ 4\ 2 \\ 2\overline{)\,8\ 4} \\ -8\downarrow \\ \hline 4 \\ -4 \\ \hline 0 \end{array}$$
Quotient = 42

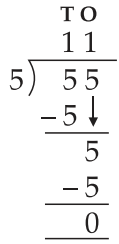
2. $51 \div 3$

$$\begin{array}{r} \text{T}\ \text{O} \\ 1\ 7 \\ 3\overline{)\,5\ 1} \\ -3\downarrow \\ \hline 2\ 1 \\ -2\ 1 \\ \hline 0 \end{array}$$
Quotient = 17

3. $48 \div 4$

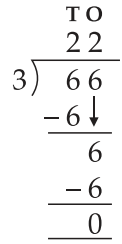
$$\begin{array}{r} \text{T}\ \text{O} \\ 1\ 2 \\ 4\overline{)\,4\ 8} \\ -4\downarrow \\ \hline 8 \\ -8 \\ \hline 0 \end{array}$$
Quotient = 12

4. 55 ÷ 5



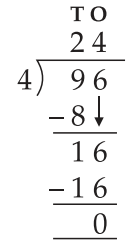
Quotient = 11

5. 66 ÷ 3



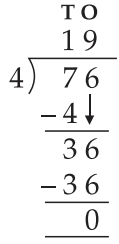
Quotient = 22

6. 96 ÷ 4



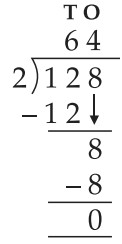
Quotient = 24

7. 76 ÷ 4



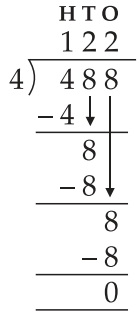
Quotient = 19

8. 128 ÷ 2



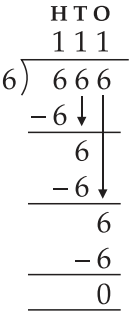
Quotient = 64

9. 488 ÷ 4



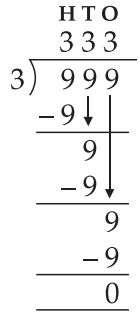
Quotient = 122

10. 666 ÷ 6



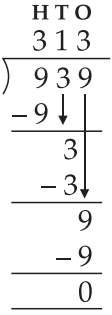
Quotient = 111

11. 999 ÷ 3



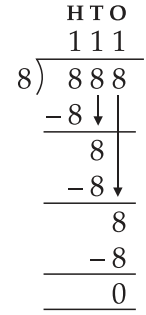
Quotient = 333

12. 939 ÷ 3



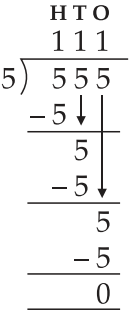
Quotient = 313

13. 888 ÷ 8



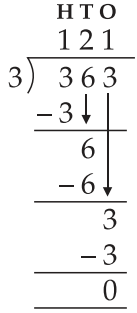
Quotient = 111

14. 555 ÷ 5



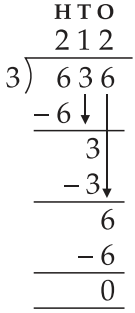
Quotient = 111

15. 363 ÷ 3



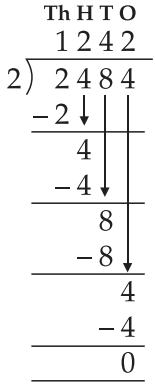
Quotient = 121

16. 636 ÷ 3



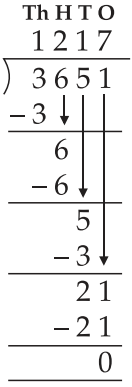
Quotient = 212

17. 2484 ÷ 2



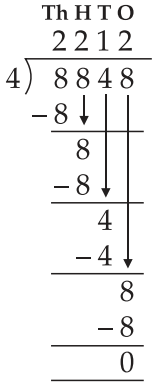
Quotient = 1242

18. 3651 ÷ 3



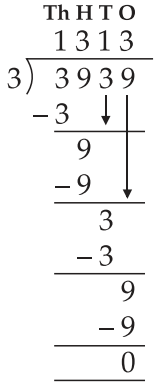
Quotient = 1217

19. 8848 ÷ 4



Quotient = 2212

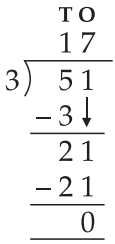
20. 3939 ÷ 3



Quotient = 1313

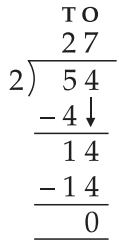
Let Us Do-7E

1. 51 ÷ 3



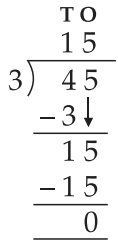
Quotient = 17

2. 54 ÷ 2



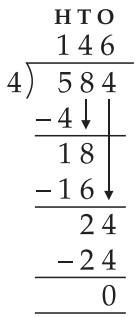
Quotient = 27

3. 45 ÷ 3



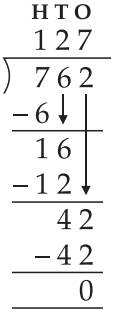
Quotient = 15

4. 584 ÷ 4



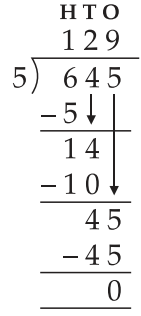
Quotient = 146

5. 762 ÷ 6



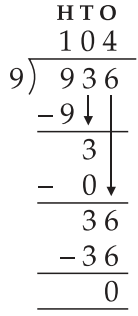
Quotient = 127

6. 645 ÷ 5



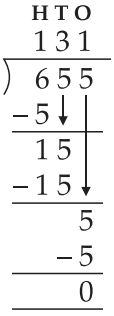
Quotient = 129

7. 936 ÷ 9



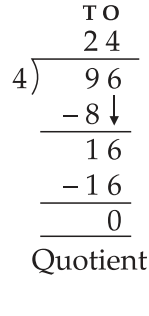
Quotient = 104

8. 655 ÷ 5



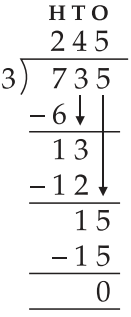
Quotient = 131

9. 96 ÷ 4



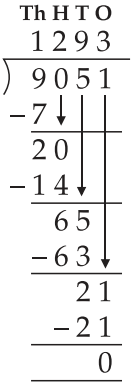
Quotient = 24

10. 735 ÷ 3



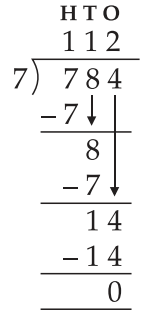
Quotient = 245

11. 9051 ÷ 7



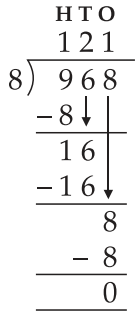
Quotient = 1293

12. 784 ÷ 7



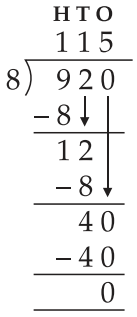
Quotient = 112

13. 968 ÷ 8



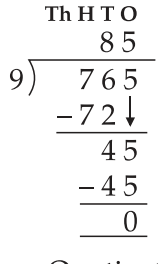
Quotient = 121

14. 920 ÷ 8



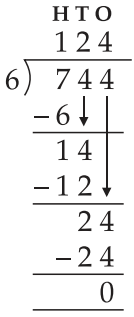
Quotient = 115

15. 765 ÷ 9



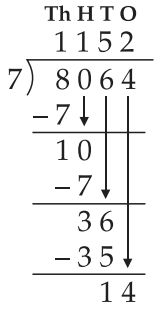
Quotient = 85

16. 744 ÷ 6



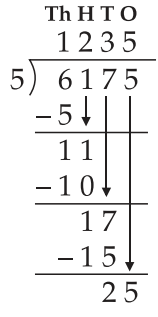
Quotient = 124

17. 8064 ÷ 7



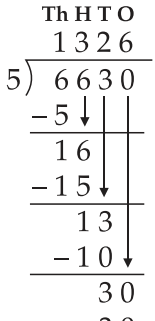
Quotient = 1152

18. 6175 ÷ 5



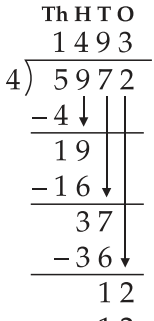
Quotient = 1235

19. 6630 ÷ 5



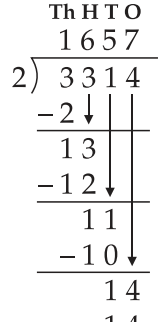
Quotient = 1326

20. 5972 ÷ 4



Quotient = 1493

21. 3314 ÷ 2



Quotient = 1657

22. 7903 ÷ 7

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

Quotient = 1129

23. 9696 ÷ 8

Th H T O
1 2 1 2
8) 9 6 9 6
−8
1 6
−1 6
9
−8
1 6
−1 6
0

Quotient = 1212

24. 1278 ÷ 6

Th H T O
2 1 3
6) 1 2 7 8
−1 2
7
−6
1 8
−1 8
0

Quotient = 213

25. 6399 ÷ 9

Th H T O
7 1 1
9) 6 3 9 9
−6 3
9
−9
9
−9
0

Quotient = 711

26. 9090 ÷ 6

Th H T O
1 5 1 5
6) 9 0 9 0
−6
3 0
−3 0
9
−6
3 0
−3 0
0

Quotient = 1515

27. 8484 ÷ 7

Th H T O
1 2 1 2
7) 8 4 8 4
−7
1 4
−1 4
8
−7
1 4
−1 4
0

Quotient = 1212

28. 7878 ÷ 6

Th H T O
1 3 1 3
6) 7 8 7 8
−6
1 8
−1 8
7
−6
1 8
−1 8
0

Quotient = 1313

Let Us Do-7F

1. $68 \div 5$

Here, Quotient = 13,
Remainder = 3,
Dividend = 68,
Divisor = 5

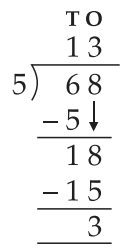
Now, verify the answer.

We know,

Dividend = Quotient × Divisor + Remainder

$68 = 13 \times 5 + 3$

$= 65 + 3 = 68$ = Dividend (Given)



2. $73 \div 3$

Here, Quotient = 24,
Remainder = 1,
Dividend = 73,
Divisor = 3

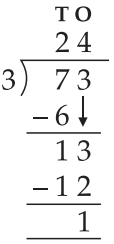
Now, verify the answer.

We know,

Dividend = Quotient × Divisor + Remainder

$73 = 24 \times 3 + 1$

$= 72 + 1 = 73$ = Dividend (Given)



3. $87 \div 6$

Here, Quotient = 14,
Remainder = 3,
Dividend = 87,
Divisor = 6

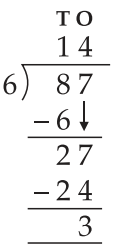
Now, verify the answer.

We know,

Dividend = Quotient × Divisor + Remainder

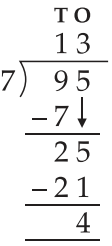
$87 = 14 \times 6 + 3$

$= 84 + 3 = 87$ = Dividend (Given)



4. $95 \div 7$

Here, Quotient = 13,
Remainder = 4,
Dividend = 95,



Divisor = 7

Now, verify the answer.

We know,

Dividend = Quotient × Divisor + Remainder

95 = 13 × 7 + 4

= 91 + 4 = 95 = Dividend (Given)

5. 79 ÷ 5

Here, Quotient = 15,

Remainder = 4,

Dividend = 79,

Divisor = 5

Now, verify the answer.

We know,

Dividend = Quotient × Divisor + Remainder

79 = 15 × 5 + 4

= 75 + 4 = 79 = Dividend (Given)

	T	O
	1	5
5)	7	9
	− 5	↓
	2	9
	− 2	5
		4

6. 97 ÷ 8

Here, Quotient = 12,

Remainder = 1,

Dividend = 97,

Divisor = 8

Now, verify the answer.

We know,

Dividend = Quotient × Divisor + Remainder

97 = 12 × 8 + 1

= 96 + 1 = 97 = Dividend (Given)

	T	O
	1	2
8)	9	7
	− 8	↓
	1	7
	− 1	6
		1

7. 88 ÷ 7

Here, Quotient = 12,

Remainder = 4,

Dividend = 88,

Divisor = 7

Now, verify the answer.

We know,

Dividend = Quotient × Divisor + Remainder

88 = 12 × 7 + 4

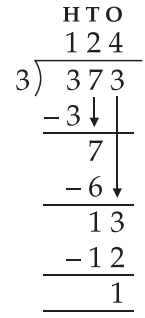
= 84 + 4 = 88 = Dividend (Given)

	T	O
	1	2
7)	8	8
	− 7	↓
	1	8
	− 1	4
		4

8. 373 ÷ 3

Here, Quotient = 124,
Remainder = 1,
Dividend = 373,
Divisor = 3
Now, verify the answer.
We know,

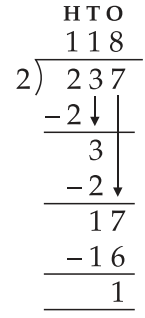
Dividend = Quotient × Divisor + Remainder
373 = 124 × 3 + 1
= 372 + 1 = 373
= Dividend (Given)



9. 237 ÷ 2

Here, Quotient = 118,
Remainder = 1,
Dividend = 237,
Divisor = 2
Now, verify the answer.
We know,

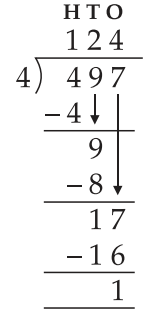
Dividend = Quotient × Divisor + Remainder
237 = 118 × 2 + 1
= 236 + 1 = 237
= Dividend (Given)



10. 497 ÷ 4

Here, Quotient = 124,
Remainder = 1,
Dividend = 497,
Divisor = 4
Now, verify the answer.
We know,

Dividend = Quotient × Divisor + Remainder
497 = 124 × 4 + 1
= 496 + 1 = 497
= Dividend (Given)



11. 842 ÷ 7

Here, Quotient = 120,
Remainder = 2,
Dividend = 842,
Divisor = 7
Now, verify the answer.
We know,
Dividend = Quotient × Divisor + Remainder
842 = 120 × 7 + 2
= 840 + 2 = 842 = Dividend (Given)

```
   HTO
    120
7) 842
  -7↓ |
   14 |
  -14↓
     2
   - 0
   ---
     2
```

12. 799 ÷ 6

Here, Quotient = 133,
Remainder = 1,
Dividend = 799,
Divisor = 6
Now, verify the answer.
We know,
Dividend = Quotient × Divisor + Remainder
799 = 133 × 6 + 1
= 798 + 1 = 799 = Dividend (Given)

```
   HTO
    133
6) 799
  -6↓ |
   19 |
  -18↓
     19
    -18
    ---
      1
```

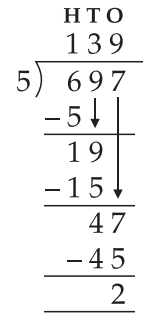
13. 699 ÷ 4

Here, Quotient = 174,
Remainder = 3,
Dividend = 699,
Divisor = 4
Now, verify the answer.
We know,
Dividend = Quotient × Divisor + Remainder
699 = 174 × 4 + 3
= 696 + 3 = 699 = Dividend (Given)

```
   HTO
    174
4) 699
  -4↓ |
   29 |
  -28↓
     19
    -16
    ---
      3
```

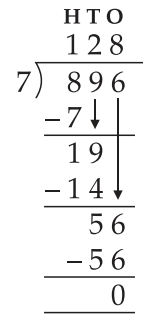
14. 697 ÷ 5

Here, Quotient = 139,
Remainder = 2,
Dividend = 697,
Divisor = 5
Now, verify the answer.
We know,
Dividend = Quotient × Divisor + Remainder
697 = 139 × 5 + 2
= 695 + 2 = 697 = Dividend (Given)



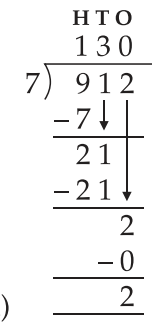
15. 896 ÷ 7

Here, Quotient = 128,
Remainder = 0,
Dividend = 896,
Divisor = 7
Now, verify the answer.
We know,
Dividend = Quotient × Divisor + Remainder
896 = 128 × 7 + 0
= 896 + 0 = 896 = Dividend (Given)



16. 912 ÷ 7

Here, Quotient = 130,
Remainder = 2,
Dividend = 912,
Divisor = 7
Now, verify the answer.
We know,
Dividend = Quotient × Divisor + Remainder
912 = 130 × 7 + 2
= 910 + 2 = 912 = Dividend (Given)



17. 996 ÷ 8

Here, Quotient = 124,
Remainder = 4,

Dividend = 996,
Divisor = 8
Now, verify the answer.
We know,
Dividend = Quotient × Divisor + Remainder
996 = 124 × 8 + 4
= 992 + 4 = 996 = Dividend (Given)

```
   H T O
     1 2 4
   ------
8) 9 9 6
  -8 ↓ |
   ------
     1 9 |
   -1 6 ↓
   ------
       3 6
     -3 2
   ------
         4
```

18. 896 ÷ 6
Here, Quotient = 149,
Remainder = 2,
Dividend = 896,
Divisor = 6
Now, verify the answer.
We know,
Dividend = Quotient × Divisor + Remainder
896 = 149 × 6 + 2
= 894 + 2 = 896 = Dividend (Given)

```
   H T O
     1 4 9
   ------
6) 8 9 6
  -6 ↓ |
   ------
     2 9 |
   -2 4 ↓
   ------
       5 6
     -5 4
   ------
         2
```

19. 900 ÷ 8
Here, Quotient = 112,
Remainder = 4,
Dividend = 900,
Divisor = 8
Now, verify the answer.
We know,
Dividend = Quotient × Divisor + Remainder
900 = 112 × 8 + 4
= 896 + 4 = 900 = Dividend (Given)

```
   H T O
     1 1 2
   ------
8) 9 0 0
  -8 ↓ |
   ------
     1 0 |
     -8 ↓
   ------
       2 0
     -1 6
   ------
         4
```

20. 757 ÷ 7
Here, Quotient = 108,
Remainder = 1,
Dividend = 757,
Divisor = 7
Now, verify the answer.
We know,
Dividend = Quotient × Divisor + Remainder

```
   H T O
     1 0 8
   ------
7) 7 5 7
  -7 ↓ |
   ------
       5 |
     -0 ↓
   ------
       5 7
     -5 6
   ------
         1
```

$757 = 108 \times 7 + 1$

$= 756 + 1 = 757 =$ Dividend (Given)

Let Us Do-7G

1. $17 \div 2$

T	O
	8
2)	17
	−16
	1

Here, Quotient = 8,
Remainder = 1,
Dividend = 17,
Divisor = 2

Now, verify the answer.

We know,

Dividend = Quotient × Divisor + Remainder

$17 = 8 \times 2 + 1$

$= 16 + 1 = 17 =$ Dividend (Given)

2. $38 \div 6$

T	O
	6
6)	38
	−36
	2

Here, Quotient = 6,
Remainder = 2,
Dividend = 38,
Divisor = 6

Now, verify the answer.

We know,

Dividend = Quotient × Divisor + Remainder

$38 = 6 \times 6 + 2$

$= 36 + 2 = 38 =$ Dividend (Given)

3. $39 \div 4$

T	O
	9
4)	39
	−36
	3

Here, Quotient = 9,
Remainder = 3,
Dividend = 39,
Divisor = 4

Now, verify the answer.

We know,

Dividend = Quotient × Divisor + Remainder

$39 = 9 \times 4 + 3$

$= 36 + 3 = 39 =$ Dividend (Given)

4. $85 \div 5$

Here, Quotient = 17,
Remainder = 0,
Dividend = 85,
Divisor = 5

Now, verify the answer.

We know,

Dividend = Quotient × Divisor + Remainder

$85 = 17 \times 5 + 0$

$= 85 + 0 = 85$ = Dividend (Given)

	T	O
	1	7
5)	8	5
	− 5	↓
	3	5
	− 3	5
		0

5. $68 \div 6$

Here, Quotient = 11,
Remainder = 2,
Dividend = 68,
Divisor = 6

Now, verify the answer.

We know,

Dividend = Quotient × Divisor + Remainder

$38 = 11 \times 6 + 2$

$= 66 + 2 = 68$ = Dividend (Given)

	T	O
	1	1
6)	6	8
	− 6	↓
		8
	−	6
		2

6. $253 \div 7$

Here, Quotient = 36,
Remainder = 1,
Dividend = 253,
Divisor = 7

Now, verify the answer.

We know,

Dividend = Quotient × Divisor + Remainder

$253 = 36 \times 7 + 1$

$= 252 + 1 = 253$ = Dividend (Given)

	T	O
	3	6
7)	2	5 3
	− 2	1 ↓
		4 3
	− 4	2
		1

7. $78 \div 9$

Here, Quotient = 8,
Remainder = 6,
Dividend = 78,
Divisor = 9

	T	O
		8
9)	7	8
	− 7	2
		6

Now, verify the answer.

We know,

Dividend = Quotient × Divisor + Remainder

$78 = 8 \times 9 + 6$

$= 72 + 6 = 78$ = Dividend (Given)

8. $637 \div 7$

Here, Quotient = 91,

Remainder = 0,

Dividend = 637,

Divisor = 7

Now, verify the answer.

We know,

Dividend = Quotient × Divisor + Remainder

$637 = 91 \times 7 + 0$

$= 637 + 0 = 637$ = Dividend (Given)

```
   T O
   9 1
 ------
7) 6 3 7
  -6 3↓
  -----
     7
    -7
  ----
     0
  ----
```

9. $897 \div 9$

Here, Quotient = 99,

Remainder = 6,

Dividend = 897,

Divisor = 9

Now, verify the answer.

We know,

Dividend = Quotient × Divisor + Remainder

$897 = 99 \times 9 + 6$

$= 891 + 6 = 897$ = Dividend (Given)

```
   T O
   9 9
 ------
9) 8 9 7
  -8 1↓
  -----
     8 7
    -8 1
  ----
     6
  ----
```

10. $659 \div 6$

Here, Quotient = 109,

Remainder = 5,

Dividend = 659,

Divisor = 6

Now, verify the answer.

We know,

Dividend = Quotient × Divisor + Remainder

$659 = 109 \times 6 + 5$

$= 654 + 5 = 659$ = Dividend (Given)

```
   H T O
   1 0 9
 ---------
6) 6 5 9
  -6↓  |
  -----|
     5 |
    -0↓
  ----
     5 9
    -5 4
  ----
     5
  ----
```

11. $777 \div 9$

Here, Quotient = 86,
Remainder = 3,
Dividend = 777,
Divisor = 9

T	O
	8 6
9)	7 7 7
	− 7 2 ↓
	5 7
	− 5 4
	3

Now, verify the answer.
We know,

Dividend = Quotient × Divisor + Remainder
$777 = 86 \times 9 + 3$
$= 774 + 3 = 777$ = Dividend (Given)

12. $666 \div 7$

Here, Quotient = 95,
Remainder = 1,
Dividend = 666,
Divisor = 7

T	O
	9 5
7)	6 6 6
	− 6 3 ↓
	3 6
	− 3 5
	1

Now, verify the answer.
We know,

Dividend = Quotient × Divisor + Remainder
$666 = 95 \times 7 + 1$
$= 665 + 1 = 666$ = Dividend (Given)

13. $555 \div 6$

Here, Quotient = 92,
Remainder = 3,
Dividend = 555,
Divisor = 6

T	O
	9 2
6)	5 5 5
	− 5 4 ↓
	1 5
	− 1 2
	3

Now, verify the answer.
We know,

Dividend = Quotient × Divisor + Remainder
$555 = 92 \times 6 + 3$
$= 552 + 3 = 555$ = Dividend (Given)

14. $444 \div 9$

Here, Quotient = 49,
Remainder = 3,
Dividend = 444, Divisor = 9

T	O
	4 9
9)	4 4 4
	− 3 6 ↓
	8 4
	− 8 1
	3

Now, verify the answer.
We know,

Dividend = Quotient × Divisor + Remainder

444 = 49 × 9 + 3

= 441 + 3 = 444 = Dividend (Given)

15. 769 ÷ 8

Here, Quotient = 96,

Remainder = 1,

Dividend = 769,

Divisor = 8

Now, verify the answer.

We know,

Dividend = Quotient × Divisor + Remainder

769 = 96 × 8 + 1

= 768 + 1 = 769 = Dividend (Given)

```
   T O
   9 6
8) 7 6 9
  -7 2 ↓
  ------
     4 9
    -4 8
  ------
       1
```

16. 876 ÷ 9

Here, Quotient = 97,

Remainder = 3,

Dividend = 876,

Divisor = 9

Now, verify the answer.

We know,

Dividend = Quotient × Divisor + Remainder

876 = 97 × 9 + 3

= 873 + 3 = 876 = Dividend (Given)

```
   T O
   9 7
9) 8 7 6
  -8 1 ↓
  ------
     6 6
    -6 3
  ------
       3
```

17. 1356 ÷ 3

Here, Quotient = 452,

Remainder = 0,

Dividend = 1356,

Divisor = 3

Now, verify the answer.

We know,

Dividend = Quotient × Divisor + Remainder

1356 = 452 × 3 + 0

= 1356 + 0 = 1356 = Dividend (Given)

```
   H T O
   4 5 2
3) 1 3 5 6
  -1 2 ↓ |
  -------|
     1 5 |
    -1 5 ↓
  -------
       6
      -6
  -------
       0
```

18. $3987 \div 4$

Here, Quotient = 996,
Remainder = 3,
Dividend = 3987,
Divisor = 4

Now, verify the answer.

We know,

Dividend = Quotient × Divisor + Remainder

$3987 = 996 \times 4 + 3$

$= 3984 + 3 = 3987$ = Dividend (Given)

```
   H T O
     9 9 6
  ---------
4 ) 3 9 8 7
    - 3 6 |
  ---------
      3 8 |
    - 3 6 |
  ---------
        2 7
      - 2 4
  ---------
          3
```

19. $4986 \div 6$

Here, Quotient = 831,
Remainder = 0,
Dividend = 4986,
Divisor = 6

Now, verify the answer.

We know,

Dividend = Quotient × Divisor + Remainder

$4986 = 831 \times 6 + 0$

$= 4986 + 0 = 4986$ = Dividend (Given)

```
   H T O
     8 3 1
  ---------
6 ) 4 9 8 6
    - 4 8 |
  ---------
      1 8 |
    - 1 8 |
  ---------
          6
        - 6
  ---------
          0
```

20. $6793 \div 7$

Here, Quotient = 970,
Remainder = 3,
Dividend = 6793,
Divisor = 7

Now, verify the answer.

We know,

Dividend = Quotient × Divisor + Remainder

$6793 = 970 \times 7 + 3$

$= 6790 + 3 = 6793$ = Dividend (Given)

```
   H T O
     9 7 0
  ---------
7 ) 6 7 9 3
    - 6 3 |
  ---------
      4 9 |
    - 4 9 |
  ---------
          3
        - 0
  ---------
          3
```

21. $7504 \div 8$

Here, Quotient = 938,
Remainder = 0,
Dividend = 7504,
Divisor = 8

Now, verify the answer.

We know,

Dividend = Quotient × Divisor + Remainder

$7504 = 938 \times 8 + 0$

$= 7504 + 0 = 7504$ = Dividend (Given)

```
   H T O
     9 3 8
  ---------
8 ) 7 5 0 4
    - 7 2 ↓ |
  ---------
      3 0 |
    - 2 4 ↓
  ---------
        6 4
      - 6 4
  ---------
          0
  ---------
```

22. $7939 \div 9$

Here, Quotient = 882,
Remainder = 1,
Dividend = 7939,
Divisor = 9

Now, verify the answer.

We know,

Dividend = Quotient × Divisor + Remainder

$7939 = 882 \times 9 + 1$

$= 7938 + 1 = 7939$ = Dividend (Given)

```
   H T O
     8 8 2
  ---------
9 ) 7 9 3 9
    - 7 2 ↓ |
  ---------
      7 3 |
    - 7 2 ↓
  ---------
        1 9
      - 1 8
  ---------
          1
  ---------
```

23. $8677 \div 9$

Here, Quotient = 964,
Remainder = 1,
Dividend = 8677, Divisor = 9

Now, verify the answer.

We know,

Dividend = Quotient × Divisor + Remainder

$8677 = 964 \times 9 + 1$

$= 8676 + 1 = 8677$ = Dividend (Given)

```
   H T O
     9 6 4
  ---------
9 ) 8 6 7 7
    - 8 1 ↓ |
  ---------
      5 7 |
    - 5 4 ↓
  ---------
        3 7
      - 3 6
  ---------
          1
  ---------
```

24. $8700 \div 9$

Here, Quotient = 966,
Remainder = 6, Dividend = 8700,
Divisor = 9

Now, verify the answer.

We know,

Dividend = Quotient × Divisor + Remainder

$8700 = 966 \times 9 + 1$

$= 8694 + 6 = 8700$ = Dividend (Given)

```
   H T O
     9 6 6
  ---------
9 ) 8 7 0 0
    - 8 1 ↓
  ---------
      6 0
    - 5 4 ↓
  ---------
      6 0
    - 5 4
  ---------
        6
```

25. $5937 \div 7$

Here, Quotient = 848,
Remainder = 1,
Dividend = 5937, Divisor = 7

Now, verify the answer.

We know,

Dividend = Quotient × Divisor + Remainder

$5937 = 848 \times 7 + 1$

$= 5936 + 1 = 5937$ = Dividend (Given)

```
   H T O
     8 4 8
  ---------
7 ) 5 9 3 7
    - 5 6 ↓
  ---------
      3 3
    - 2 8 ↓
  ---------
        5 7
      - 5 6
  ---------
          1
```

26. $5793 \div 6$

Here, Quotient = 965,
Remainder = 3,
Dividend = 5793, Divisor = 6

Now, verify the answer.

We know,

Dividend = Quotient × Divisor + Remainder

$5793 = 965 \times 6 + 3$

$= 5790 + 3 = 5793$ = Dividend (Given)

```
   H T O
     9 6 5
  ---------
6 ) 5 7 9 3
    - 5 4 ↓
  ---------
      3 9
    - 3 6 ↓
  ---------
        3 3
      - 3 0
  ---------
          3
```

27. $6666 \div 8 \Rightarrow$ Here, Quotient = 833,
Remainder = 2,
Dividend = 6666,
Divisor = 8

Now, verify the answer.

We know,

Dividend = Quotient × Divisor + Remainder

$6666 = 833 \times 8 + 2$

$= 6664 + 2 = 6666$ = Dividend (Given)

```
   H T O
     8 3 3
  ---------
8 ) 6 6 6 6
    - 6 4 ↓
  ---------
      2 6
    - 2 4 ↓
  ---------
        2 6
      - 2 4
  ---------
          2
```

28. $4049 \div 7$

Here, Quotient = 578,

Remainder = 3,

Dividend = 4049, Divisor = 7

Now, verify the answer.

We know,

Dividend = Quotient × Divisor + Remainder

$4049 = 578 \times 7 + 3$

$= 4046 + 3 = 4049$ = Dividend (Given)

	H	T	O
		5	7 8
7)	4	0	4 9
	− 3	5 ↓	|
		5	4
	− 4	9 ↓	
		5	9
	− 5	6	
			3

Let Us Do-7H

Q. No.	Question	Quotient	Remainder
1.	65 ÷ 10	6	5
2.	27 ÷ 10	2	7
3.	97 ÷ 10	9	7
4.	364 ÷ 10	36	4
5.	879 ÷ 10	87	9
6.	976 ÷ 10	97	6
7.	888 ÷ 10	88	8
8.	1796 ÷ 10	179	6
9.	2397 ÷ 10	239	7
10.	6783 ÷ 10	678	3
11.	5439 ÷ 10	543	9
12.	8777 ÷ 10	877	7
13.	7875 ÷ 10	787	5
14.	900 ÷ 10	90	0
15.	9008 ÷ 10	900	8
16.	400 ÷ 10	40	0
17.	2001 ÷ 10	200	1
18.	3000 ÷ 10	300	0
19.	7009 ÷ 10	700	9
20.	8097 ÷ 10	809	7

Let Us Do-7I

1. 286 ÷ 13

	T	O
		2 2
13)	2	8 6
	− 2	6 ↓
		2 6
	− 2	6
		0

Quotient = 22
Remainder = 0

2. 856 ÷ 11

	T	O
		7 7
11)	8	5 6
	− 7	7 ↓
		8 6
	− 7	7
		9

Quotient = 77
Remainder = 9

3. 797 ÷ 14

	T	O
		5 6
14)	7	9 7
	− 7	0 ↓
		9 7
	− 8	4
		1 3

Quotient = 56
Remainder = 13

4. 988 ÷ 15

	T	O
		6 5
15)	9	8 8
	− 9	0 ↓
		8 9
	− 7	5
		1 4

Quotient = 65
Remainder = 14

5. 4617 ÷ 17

	H	T	O
		2	7 1
17)	4	6	1 7
	− 3	4 ↓	|
		1	2 1 |
	− 1	1	9 ↓
			2 7
		− 1	7
			1 0

Quotient = 271
Remainder = 10

6. 569 ÷ 18

	T	O
		3 1
18)	5	6 9
	− 5	4 ↓
		2 9
	− 1	8
		1 1

Quotient = 31
Remainder = 11

7. 989 ÷ 11

	T	O
		8 9
11)	9	8 9
	− 8	8 ↓
		1 0 9
	− 9	9
		1 0

Quotient = 89
Remainder = 10

8. 555 ÷ 15

	T	O
		3 7
15)	5	5 5
	− 4	5 ↓
		1 0 5
	− 1	0 5
		0

Quotient = 37
Remainder = 0

9. 3918 ÷ 16

```
      HTO
      244
    ------
16) 3918
   -32
    71
   -64
     78
    -64
     14
```

Quotient = 244
Remainder = 14

10. 2018 ÷ 14

```
      HTO
      144
    ------
14) 2018
   -14
    61
   -56
     58
    -56
      2
```

Quotient = 144
Remainder = 2

11. 7983 ÷ 17

```
      HTO
      469
    ------
17) 7983
   -68
   118
  -102
    163
   -153
     10
```

Quotient = 469
Remainder = 10

12. 4310 ÷ 12

```
      HTO
      359
    ------
12) 4310
   -36
    71
   -60
    110
   -108
      2
```

Quotient = 359
Remainder = 2

13. 7316 ÷ 18

```
      HTO
      406
    ------
18) 7316
   -72
    11
   -00
    116
   -108
      8
```

Quotient = 406
Remainder = 8

14. 5679 ÷ 19

```
      HTO
      298
    ------
19) 5679
   -38
   187
  -171
    169
   -152
     17
```

Quotient = 298
Remainder = 17

15. 7333 ÷ 11

```
      HTO
      666
    ------
11) 7333
   -66
    73
   -66
     73
    -66
      7
```

Quotient = 666
Remainder = 7

16. 8876 ÷ 12

```
      HTO
      739
    ------
12) 8876
   -84
    47
   -36
    116
   -108
      8
```

Quotient = 739
Remainder = 8

17. 9979 ÷ 13

```
      HTO
      767
    ------
13) 9979
   -91
    87
   -78
     99
    -91
      8
```

Quotient = 767
Remainder = 8

18. $7797 \div 15$

```
      H T O
        5 1 9
    ┌─────────
15  │ 7 7 9 7
    │ −7 5↓ |
    │   2 9 |
    │ −1 5↓
    │   1 4 7
    │ −1 3 5
    │     1 2
```

Quotient = 519
Remainder = 12

19. $7666 \div 14$

```
      H T O
        5 4 7
    ┌─────────
14  │ 7 6 6 6
    │ −7 0↓ |
    │   6 6 |
    │ −5 6↓
    │   1 0 6
    │ −  9 8
    │     8
```

Quotient = 547
Remainder = 8

20. $8976 \div 13$

```
      H T O
        6 9 0
    ┌─────────
13  │ 8 9 7 6
    │ −7 8↓ |
    │   1 1 7 |
    │ −1 1 7↓
    │       6
    │ −     0
    │       6
```

Quotient = 690
Remainder = 6

Let Us Do-7J

1. Total number of dolls to be divided = 56
Number of girls = 7
Number of dolls that a girl will get = $56 \div 7 = 8$
So, 8 dolls will each girl get.

2. Total number of days in a week = 7
Number of weeks in 98 days = $98 \div 7 = 14$
So, 14 weeks are there in 98 days.

3. Number of photographs are pasted on each page = 8
Number of pages are required to paste 96 photographs
$= 96 \div 8 = 12$
So, 12 pages are required to paste 96 photographs.

4. Total amount spent on buying the pens = ₹ 55
The cost of a pen = ₹ 5
Number of pens he buy = ₹ $55 \div 5 = 11$
So, 11 pens did he buy.

5. The product of two numbers = 648
One of them = 6
Other number = $648 \div 6 = 108$
So, the other number is 108.

6. A car cover travels in 4 hours = 288 km
It travels in 1 hour = $288 \div 4 = 72$ km
So, 72 kilometres does it travel in one hour.

7. Total number of children = 40
Number of children in 1 group = 10
Number of group of children = 40 ÷ 10 = 4
So, 4 groups of 10 children each can be made.

8. Total number of milk bottles = 36
Total number of families = 9
Bottles will each family get = 36 ÷ 9 = 4
So, 4 bottles will each family get.

9. Total number of players = 72
Number of teams = 6
Players in each team = 72 ÷ 6 = 12
So, 12 players are there in each team.

10. Total number of trees = 96
Number of trees planted in each row = 7
Number of rows formed = 96 ÷ 7
Now, 96 ÷ 7 given Quotient
= 13 and Remainder = 5
So, 13 rows are formed and 5 plants are left over.

```
   T O
    1 3
  ------
7) 9 6
  - 7 ↓
  -----
    2 6
  - 2 1
  -----
      5
  -----
```

11. Total number of students = 504
Number of groups = 6
Number of students in each group = 504 ÷ 6 = 84
So, 84 students are the there in each group.

12. Total number of seats = 369
Number of seats in each row = 9
Number of seats in each row = 369 ÷ 9 = 41
So, 41 seats are there in each row.

13. Total number of students = 1106
Number of trips = 7
Number of students in each trip = 1106 ÷ 7 = 158
So, 158 students does it carry in each trip.

14. Total number of toffees = 250
Number of toffees in each packet = 10
Number of packets will be formed = 250 ÷ 10 = 25
So, 25 packets will be formed.

15. Total number of students = 852
Number of students can sit on a bench = 6
Number of benches are needed = 852 ÷ 6 = 142
So, 142 benches are needed for 852 students.

16. A car covers 60 km in 1 hour
It covers 360 km = 360 ÷ 60 = 6 hours
So, 6 hours will it cover 360 km.

17. Total money = ₹ 747
Number of girls = 3
Rupees will each girl get = ₹ 747 ÷ 3 = ₹ 249
So, ₹ 249 will each girl get.

18. Total number of bags = 945
Number of ration shops = 5
Bags were supplied to each shop = 945 ÷ 5 = 189
So, 189 bags were supplied to each shop.

19. Total money = ₹ 918
Number of carpenters = 9
Each carpenter get rupees = ₹ 918 ÷ 9 = ₹ 102
So, ₹ 102 does each carpenter get.

20. Total number of kilometre = 1048 km
A car goes in one litre of petrol = 8 km
Total Petrol will consume = 1048 ÷ 8 = 131 litre
So, 131 litre petrol will it consume to go 1048 km.

21. The product of two numbers = 8845
One number = 5
Other number = 8845 ÷ 5 = 1769
So, the other number is 1769.

22. Total number of screws = 4608
Number of boxes = 8
Number of screws in each box = 4608 ÷ 8 = 576
So, 576 screws in each box.

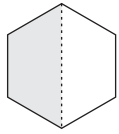
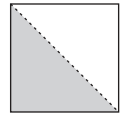
23. Total distance cover by a plane = 2514 km
Total travelling time = 6 hours
The plane cover the distance in each hour
= 2514 ÷ 6 = 419 km
So, 419 kilometres the plane travel in each hour.

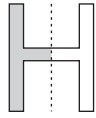
24. Total number of marbles = 988
Number of boys = 19
Number of marbles get each boy = 988 ÷ 19 = 52
So, 52 marbles does each boy get.

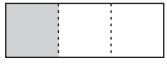
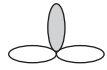
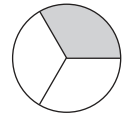
25. Total distance covered = 2014 km
Distance covered in 1 hour = 8 km
Time taken = 2104 ÷ 8 = 263 hours
So, 263 hours does he take to cover 2104 km.

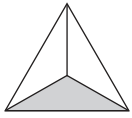
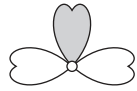
Fractions

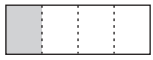
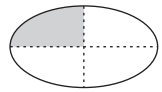
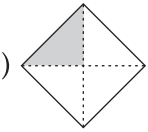
Let Us Do-8A

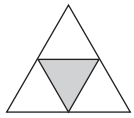
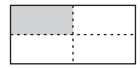
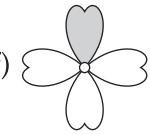
1. (a)  (b)  (c) 

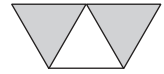
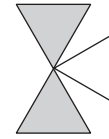
(d)  (e) 

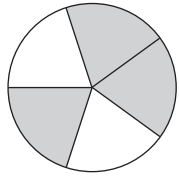
2. (a)  (b)  (c) 

(d)  (e) 

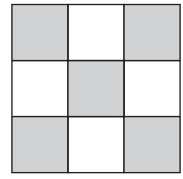
3. (a)  (b)  (c) 

(d)  (e)  (f) 

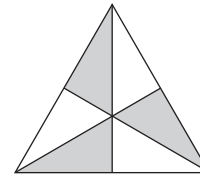
4. (a)  (b)  (c)  (d) 

5. (a) 

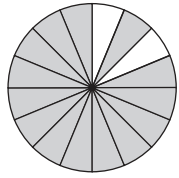
$\frac{3}{5}$

(b) 

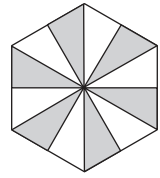
$\frac{5}{9}$

(c) 

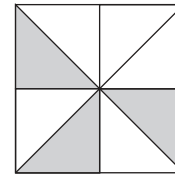
$\frac{3}{6}$

(d) 

$\frac{14}{16}$

(e) 

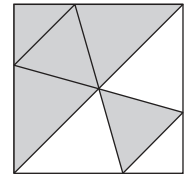
$\frac{6}{12}$

(f) 

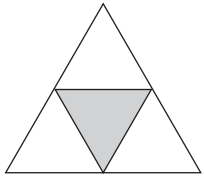
$\frac{3}{8}$

6. (a) 

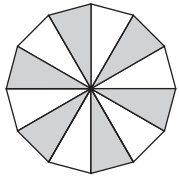
$\frac{6}{8}$

(b) 

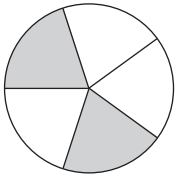
$\frac{3}{8}$

(c) 

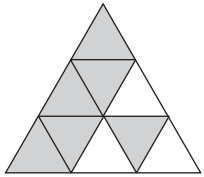
$\frac{3}{4}$

(d) 

$\frac{6}{12}$

(e) 

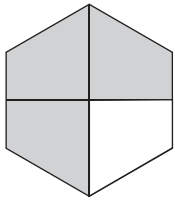
$\frac{3}{5}$

(f) 

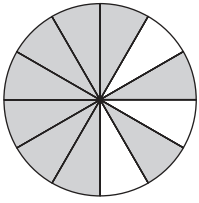
$\frac{3}{9}$

7. (a) 

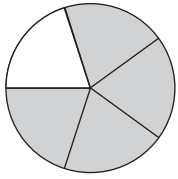
$\frac{3}{7}$

(b) 

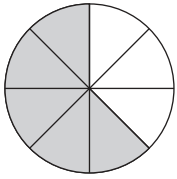
$\frac{3}{4}$

(c) 

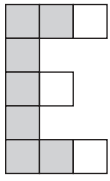
$\frac{9}{12}$

(d) 

$\frac{4}{5}$

(e) 

$\frac{5}{8}$

(f) 

$\frac{7}{10}$

8.

Fractional Number	Fraction
(a) six-sevenths	$\frac{6}{7}$
(b) two-fifths	$\frac{2}{5}$
(c) nine-tenths	$\frac{9}{10}$
(d) three-ninths	$\frac{3}{9}$
(e) four-sixths	$\frac{4}{6}$
(f) seven-tenths	$\frac{7}{10}$
(g) three-fifths	$\frac{3}{5}$
(h) six-ninths	$\frac{6}{9}$
(i) one-sevenths	$\frac{1}{7}$
(j) three-fifths	$\frac{3}{5}$

9.

	Fraction	Numerator	Denominator
(a)	$\frac{2}{3}$	2	3
(b)	$\frac{3}{5}$	3	5
(c)	$\frac{2}{8}$	2	8
(d)	$\frac{6}{10}$	6	10
(e)	$\frac{11}{25}$	11	25

(f)	$\frac{7}{13}$	7	13
(g)	$\frac{11}{36}$	11	36
(h)	$\frac{27}{35}$	27	35
(i)	$\frac{6}{20}$	6	20
(j)	$\frac{14}{29}$	14	29
(k)	$\frac{7}{23}$	7	23
(l)	$\frac{13}{31}$	13	31

10.

(a)	numerator = 3	denominator = 7	$\frac{3}{7}$
(b)	numerator = 2	denominator = 9	$\frac{2}{9}$
(c)	denominator = 15	numerator = 14	$\frac{14}{15}$
(d)	denominator = 11	numerator = 7	$\frac{7}{11}$
(e)	numerator = 13	denominator = 16	$\frac{13}{16}$
(f)	numerator = 24	denominator = 45	$\frac{24}{45}$
(g)	numerator = 21	denominator = 28	$\frac{21}{28}$
(h)	denominator = 20	numerator = 17	$\frac{17}{20}$
(i)	denominator = 27	numerator = 19	$\frac{19}{27}$

11. (a) In $\frac{7}{15}$, the numerator is 7 and the denominator is 15.

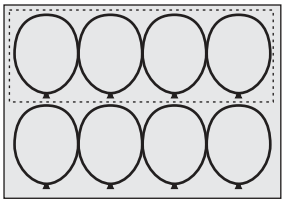
(b) In $\frac{9}{35}$, the denominator is 35 and the numerator is 9.

(c) In $\frac{17}{37}$, the numerator is 17 and the denominator is 37.

(d) In $\frac{15}{33}$, the numerator is 15 and the denominator is 33.

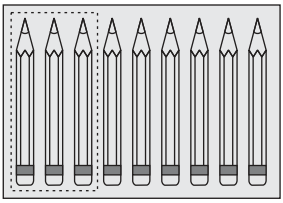
(e) In $\frac{17}{19}$, the denominator is 19 and the numerator is 17.

12.



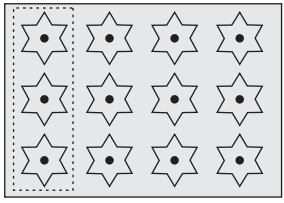
$\frac{1}{2}$ of 8 = 4

13.



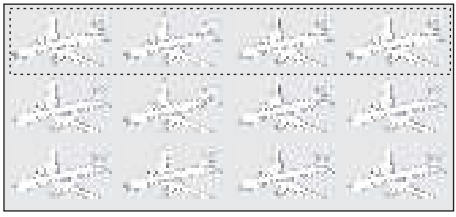
$\frac{1}{3}$ of 9 = 3

14.



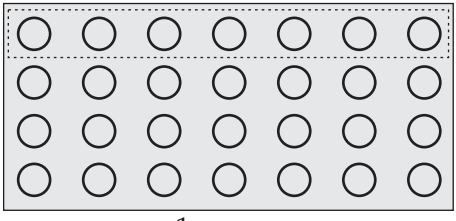
$\frac{1}{4}$ of 12 = 3

15.



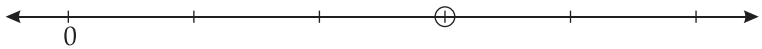
$\frac{1}{3}$ of 12 = 4

16.

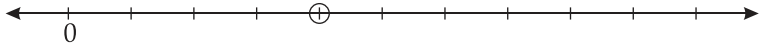


$\frac{1}{4}$ of 28 = 7

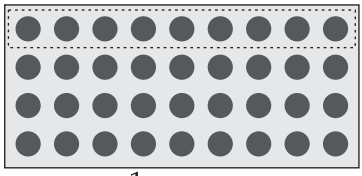
2. (b) $\frac{3}{5}$



(c) $\frac{4}{10}$

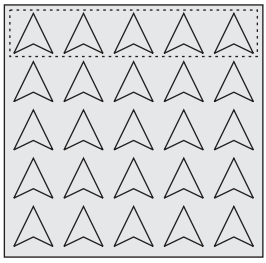


17.



$\frac{1}{4}$ of $36 = 9$

18.

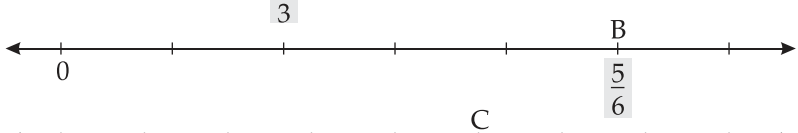


$\frac{1}{5}$ of $25 = 5$

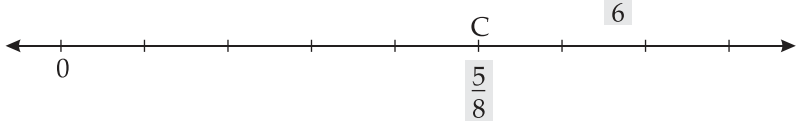
Let Us Do-8B

1. (a)

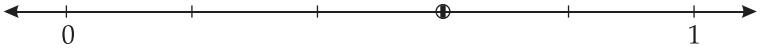
(b)



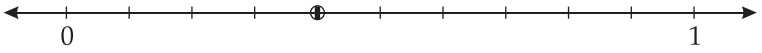
(c)



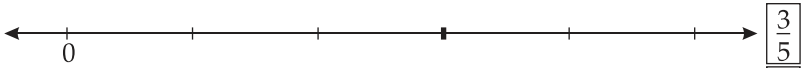
2. (b) $\frac{3}{5}$



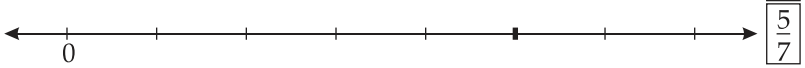
(c) $\frac{4}{10}$



3. (b)



(c)



Let Us Do-8C

1. (a) $\frac{2}{5} = \frac{2\times2}{5\times2} = \frac{2\times3}{5\times3} = \frac{2\times4}{5\times4} = \frac{2\times5}{5\times5}$

$= \frac{2}{5} = \frac{4}{10} = \frac{6}{15} = \frac{8}{20} = \frac{10}{25}$

Hence, the four fractions equivalent to $\frac{2}{5}$ are $\frac{4}{10}, \frac{6}{15}, \frac{8}{20}, \frac{10}{25}$.

(b) $\frac{3}{7}=\frac{3\times 2}{7\times 2}=\frac{3\times 3}{7\times 3}=\frac{3\times 4}{7\times 4}=\frac{3\times 5}{7\times 5}$ or

$\frac{3}{7}=\frac{6}{14}=\frac{9}{21}=\frac{12}{28}=\frac{15}{35}$

Hence, the four fractions equivalent to $\frac{3}{7}$ are $\frac{6}{14}, \frac{9}{21}, \frac{12}{28}, \frac{15}{35}$.

(c) $\frac{5}{9}=\frac{5\times 2}{9\times 2}=\frac{5\times 3}{9\times 3}=\frac{5\times 4}{9\times 4}=\frac{5\times 5}{9\times 5}$ or

$\frac{5}{9}=\frac{10}{18}=\frac{15}{27}=\frac{20}{36}=\frac{25}{45}$

Hence, the four fractions equivalent to $\frac{5}{9}$ are $\frac{10}{18}, \frac{15}{27}, \frac{20}{36}, \frac{25}{45}$.

(d) $\frac{6}{11}=\frac{6\times 2}{11\times 2}=\frac{6\times 3}{11\times 3}=\frac{6\times 4}{11\times 4}=\frac{6\times 5}{11\times 5}$ or

$\frac{6}{11}=\frac{12}{22}=\frac{18}{33}=\frac{24}{44}=\frac{30}{55}$

Hence, the four fractions equivalent to $\frac{6}{11}$ are $\frac{12}{22}, \frac{18}{33}, \frac{24}{44}, \frac{30}{55}$.

(e) $\frac{13}{14}=\frac{13\times 2}{14\times 2}=\frac{13\times 3}{14\times 3}=\frac{13\times 4}{14\times 4}=\frac{13\times 5}{14\times 5}$ or

$\frac{13}{14}=\frac{26}{28}=\frac{39}{42}=\frac{52}{56}=\frac{65}{70}$

Hence, the four fractions equivalent to $\frac{13}{14}$ are $\frac{26}{28}, \frac{39}{42}, \frac{52}{56}, \frac{65}{70}$.

(f) $\frac{15}{16}=\frac{15\times 2}{16\times 2}=\frac{15\times 3}{16\times 3}=\frac{15\times 4}{16\times 4}=\frac{15\times 5}{16\times 5}$ or

$\frac{15}{16}=\frac{30}{32}=\frac{45}{48}=\frac{60}{64}=\frac{75}{80}$

Hence, the four fractions equivalent to $\frac{15}{16}$ are $\frac{30}{32}, \frac{45}{48}, \frac{60}{64}, \frac{75}{80}$.

(g) $\frac{3}{17}=\frac{3\times2}{17\times2}=\frac{3\times3}{17\times3}=\frac{3\times4}{17\times4}=\frac{3\times5}{17\times5}$ or

$\frac{3}{17}=\frac{6}{34}=\frac{9}{51}=\frac{12}{68}=\frac{15}{85}$

Hence, the four fractions equivalent to $\frac{3}{17}$ are $\frac{6}{34}, \frac{9}{51}, \frac{12}{68}, \frac{15}{85}$.

(h) $\frac{4}{19}=\frac{4\times2}{19\times2}=\frac{4\times3}{19\times3}=\frac{4\times4}{19\times4}=\frac{4\times5}{19\times5}$ or

$\frac{4}{19}=\frac{8}{38}=\frac{12}{57}=\frac{16}{76}=\frac{20}{95}$

Hence, the four fractions equivalent to $\frac{4}{19}$ are $\frac{8}{38}, \frac{12}{57}, \frac{16}{76}, \frac{20}{95}$.

2. (a) $\frac{\square}{10}=\frac{1}{2} \Rightarrow \frac{1}{2}=\frac{1\times5}{2\times5}=\frac{5}{10}$

Hence, $\frac{1}{2}$ is equivalent to $\frac{5}{10}$.

$\therefore$ Fill 5 in the given box.

(b) $\frac{7}{\square}=\frac{14}{16} \Rightarrow \frac{14\div2}{16\div2}=\frac{7}{8}$

Hence, $\frac{14}{16}$ is equaling to $\frac{7}{3}$. $\therefore$ Fill 8 in the given box.

(c) $\frac{5}{15}=\frac{\square}{30} \Rightarrow \frac{5}{15}=\frac{5\times2}{15\times2}=\frac{10}{30}$

Hence, $\frac{5}{15}$ is equaling to $\frac{10}{30}$. $\therefore$ Fill 10 in the given box.

(d) $\frac{3}{7}=\frac{9}{\square} \Rightarrow \frac{3}{7}=\frac{3\times3}{7\times3}=\frac{9}{21}$

Hence, $\frac{3}{7}$ is equaling to $\frac{9}{21}$.

$\therefore$ Fill 21 in the given box.

(e) $\frac{1}{4}=\frac{\square}{16} \Rightarrow \frac{1}{4}=\frac{1\times4}{4\times4}=\frac{4}{16}$

Hence, $\frac{1}{4}$ is equaling to $\frac{4}{16}$. $\therefore$ Fill 4 in the given box.

(f) $\frac{5}{7} = \frac{\square}{35} \Rightarrow \frac{5}{7} = \frac{5 \times 5}{7 \times 5} = \frac{25}{35}$

Hence, $\frac{5}{7}$ is equaling to $\frac{25}{35}$. $\therefore$ Fill 25 in the given box.

(g) $\frac{3}{\square} = \frac{15}{20} \Rightarrow \frac{15}{20} = \frac{15 \div 5}{20 \div 5} = \frac{3}{4}$

Hence, $\frac{15}{20}$ is equaling to $\frac{3}{4}$. $\therefore$ Fill 4 in the given box.

(h) $\frac{9}{7} = \frac{27}{\square} \Rightarrow \frac{9}{7} = \frac{9 \times 3}{7 \times 3} = \frac{27}{21}$

Hence, $\frac{9}{7}$ is equaling to $\frac{27}{21}$. $\therefore$ Fill 21 in the given box.

3. (a) $\frac{12}{16} = \frac{12 \div 2}{16 \div 2} = \frac{12 \div 4}{16 \div 4} \Rightarrow \frac{12}{16} = \frac{6}{8} = \frac{3}{4}$

Hence, the two fractions equivalent to $\frac{12}{16}$ are $\frac{6}{8}, \frac{3}{4}$

(b) $\frac{14}{42} = \frac{14 \div 2}{42 \div 2} = \frac{14 \div 14}{42 \div 14} \Rightarrow \frac{14}{42} = \frac{7}{21} = \frac{1}{3}$

Hence, the two fractions equivalent to $\frac{14}{42}$ are $\frac{7}{21}, \frac{1}{3}$

(c) $\frac{36}{40} = \frac{36 \div 2}{40 \div 2} = \frac{36 \div 4}{40 \div 4} \Rightarrow \frac{36}{40} = \frac{18}{20} = \frac{9}{10}$

Hence, the two fractions equivalent to $\frac{36}{40}$ are $\frac{18}{20}, \frac{9}{10}$

(d) $\frac{20}{60} = \frac{20 \div 2}{60 \div 2} = \frac{20 \div 4}{60 \div 4} \Rightarrow \frac{20}{60} = \frac{10}{30} = \frac{5}{15}$

Hence, the two fractions equivalent to $\frac{20}{60}$ are $\frac{10}{30}, \frac{5}{15}$

(e) $\frac{40}{72}=\frac{40\div 2}{72\div 2}=\frac{40\div 4}{72\div 4} \Rightarrow \frac{40}{72}=\frac{20}{36}=\frac{10}{18}$

Hence, the two fractions equivalent to $\frac{40}{72}$ are $\frac{20}{36}, \frac{10}{18}$

(f) $\frac{18}{24}=\frac{18\div 2}{24\div 2}=\frac{18\div 3}{24\div 3} \Rightarrow \frac{18}{24}=\frac{9}{12}=\frac{6}{8}$

Hence, the two fractions equivalent to $\frac{18}{24}$ are $\frac{9}{12}, \frac{6}{8}$

(g) $\frac{16}{24}=\frac{16\div 2}{24\div 2}=\frac{16\div 4}{24\div 4} \Rightarrow \frac{16}{24}=\frac{8}{12}=\frac{4}{6}$

Hence, the two fractions equivalent to $\frac{16}{24}$ are $\frac{8}{12}, \frac{4}{6}$

(h) $\frac{40}{100}=\frac{40\div 2}{100\div 2}=\frac{40\div 4}{100\div 4} \Rightarrow \frac{40}{100}=\frac{20}{50}=\frac{10}{25}$

Hence, the two fractions equivalent to $\frac{40}{100}$ are $\frac{20}{50}, \frac{10}{25}$

4. (a) $\frac{5}{10}$ and $\frac{15}{30}$ $\Rightarrow$ cross multiply as shown : $\frac{5}{10}\times\frac{15}{30}$

Here, $5\times 30=150$ and $10\times 15=150$

Thus, the two cross products are equal, each being equal to 150.

Hence, $\frac{5}{10}$ and $\frac{15}{30}$ are equivalent fraction.

(b) $\frac{9}{16}$ and $\frac{18}{32}$ $\Rightarrow$ cross multiply as shown : $\frac{9}{16}\times\frac{18}{32}$

Here, $9\times 32=288$ and $16\times 18=288$

Thus, the two cross products are equal, each being equal to 288.

Hence, $\frac{9}{16}$ and $\frac{18}{32}$ are equivalent fraction.

(c) $\frac{4}{5}$ and $\frac{12}{20}$ $\Rightarrow$ cross multiply as shown : $\frac{4}{5}\times\frac{12}{20}$

Here, $4 \times 20 = 80$ and $5 \times 12 = 60$

Thus, the two cross products are not equal, as 80 is not equal to 60.

Hence, $\frac{4}{5}$ and $\frac{12}{20}$ are not equivalent fraction.

(d) $\frac{16}{20}$ and $\frac{15}{30}$ $\Rightarrow$ cross multiply as shown : $\frac{16}{20}\times\frac{15}{30}$

Here, $16 \times 30 = 480$ and $20 \times 15 = 300$

Thus, the two cross products are not equal, as 480 is not equal to 300.

Hence, $\frac{16}{20}$ and $\frac{15}{30}$ are not equivalent fraction.

(e) $\frac{4}{8}$ and $\frac{16}{30}$ $\Rightarrow$ cross multiply as shown : $\frac{4}{8}\times\frac{16}{30}$

Here, $4 \times 30 = 120$ and $8 \times 16 = 128$

Thus, the two cross products are not equal, as 120 is not equal to 128.

Hence, $\frac{4}{8}$ and $\frac{16}{30}$ are not equivalent fraction.

(f) $\frac{9}{16}$ and $\frac{27}{48}$ $\Rightarrow$ cross multiply as shown : $\frac{9}{16}\times\frac{27}{48}$

Here, $9 \times 48 = 432$ and $16 \times 27 = 432$

Thus, the two cross products are equal, each being equal to 432.

Hence, $\frac{9}{16}$ and $\frac{27}{48}$ are equivalent fraction.

(g) $\frac{5}{10}$ and $\frac{18}{36}$ $\Rightarrow$ cross multiply as shown : $\frac{5}{10}\times\frac{18}{36}$

Here, $5 \times 36 = 180$ and $10 \times 18 = 180$

Thus, the two cross products are equal, each being equal to 180.

Hence, $\frac{5}{10}$ and $\frac{18}{36}$ are equivalent fraction.

(h) $\frac{9}{10}$ and $\frac{27}{40}$ $\Rightarrow$ cross multiply as shown : $\frac{9}{10}\times\frac{27}{40}$

Here, $9 \times 40 = 360$ and $10 \times 27 = 270$

Thus, the two cross products are not equal, as 360 is not equal to 270.

Hence, $\frac{9}{10}$ and $\frac{27}{40}$ are not equivalent fraction.

5. (a) $\frac{6}{18} = \frac{2}{\square} \Rightarrow \frac{6}{18} = \frac{6 \div 3}{18 \div 3} = \frac{2}{6}$

Hence, $\frac{6}{18}$ is equaling to $\frac{2}{6}$.

$\therefore$ Fill 6 in the place-holder.

(b) $\frac{15}{25} = \frac{3}{\square} \Rightarrow \frac{15}{25} = \frac{15 \div 5}{25 \div 5} = \frac{3}{5}$

Hence, $\frac{15}{25}$ is equaling to $\frac{3}{5}$.

$\therefore$ Fill 5 in the place-holder.

(c) $\frac{10}{24} = \frac{5}{\square} \Rightarrow \frac{10}{24} = \frac{10 \div 2}{24 \div 2} = \frac{5}{12}$

Hence, $\frac{10}{24}$ is equaling to $\frac{5}{12}$.

$\therefore$ Fill 12 in the place-holder.

(d) $\frac{14}{26} = \frac{7}{\square} \Rightarrow \frac{14}{26} = \frac{14 \div 2}{26 \div 2} = \frac{7}{13}$

Hence, $\frac{14}{26}$ is equaling to $\frac{7}{13}$.

$\therefore$ Fill 13 in the place-holder.

(e) $\frac{18}{30} = \frac{3}{\square} \Rightarrow \frac{18}{30} = \frac{18 \div 6}{30 \div 6} = \frac{3}{5}$

Hence, $\frac{18}{30}$ is equaling to $\frac{3}{5}$.

$\therefore$ Fill 5 in the place-holder.

(f) $\frac{24}{30} = \frac{4}{\square} \Rightarrow \frac{24}{30} = \frac{24 \div 6}{30 \div 6} = \frac{4}{5}$

Hence, $\frac{24}{30}$ is equaling to $\frac{4}{5}$.

$\therefore$ Fill 5 in the place-holder.

(g) $\frac{14}{35} = \frac{2}{\square} \Rightarrow \frac{14}{35} = \frac{14 \div 7}{35 \div 7} = \frac{2}{5}$

Hence, $\frac{14}{35}$ is equaling to $\frac{2}{5}$.

$\therefore$ Fill 5 in the place-holder.

(h) $\frac{28}{56} = \frac{2}{\square} \Rightarrow \frac{28}{56} = \frac{28 \div 14}{56 \div 14} = \frac{2}{4}$

Hence, $\frac{28}{56}$ is equaling to $\frac{2}{4}$.

$\therefore$ Fill 4 in the place-holder.

6. (a) $\frac{27}{36} = \frac{\square}{4} \Rightarrow \frac{27}{36} = \frac{27 \div 9}{36 \div 9} = \frac{3}{4}$

Hence, $\frac{27}{36}$ is equaling to $\frac{3}{4}$.

$\therefore$ Fill 3 in the place-holder.

(b) $\frac{20}{35} = \frac{\square}{7} \Rightarrow \frac{20}{35} = \frac{20 \div 5}{35 \div 5} = \frac{4}{7}$

Hence, $\frac{20}{35}$ is equaling to $\frac{4}{7}$.

$\therefore$ Fill 4 in the place-holder.

(c) $\frac{12}{18} = \frac{\square}{6} \Rightarrow \frac{12}{18} = \frac{12 \div 3}{18 \div 3} = \frac{4}{6}$

Hence, $\frac{12}{18}$ is equaling to $\frac{4}{6}$.

$\therefore$ Fill 4 in the place-holder.

(d) $\frac{15}{45} = \frac{\square}{9} \Rightarrow \frac{15}{45} = \frac{15 \div 5}{45 \div 5} = \frac{3}{9}$

Hence, $\frac{15}{45}$ is equaling to $\frac{3}{9}$.

$\therefore$ Fill 3 in the place-holder.

(e) $\frac{15}{20} = \frac{\square}{4} \Rightarrow \frac{15}{20} = \frac{15 \div 5}{20 \div 5} = \frac{3}{4}$

Hence, $\frac{15}{20}$ is equaling to $\frac{3}{4}$.

$\therefore$ Fill 3 in the place-holder.

(f) $\frac{16}{24}=\frac{\square}{3} \Rightarrow \frac{16}{24}=\frac{16\div 8}{24\div 8}=\frac{2}{3}$

Hence, $\frac{16}{24}$ is equaling to $\frac{2}{3}$.

$\therefore$ Fill 2 in the place-holder.

(g) $\frac{9}{36}=\frac{\square}{4} \Rightarrow \frac{9}{36}=\frac{9\div 9}{36\div 9}=\frac{1}{4}$

Hence, $\frac{9}{36}$ is equaling to $\frac{1}{4}$.

$\therefore$ Fill 1 in the place-holder.

(h) $\frac{18}{72}=\frac{\square}{8} \Rightarrow \frac{18}{72}=\frac{18\div 9}{72\div 9}=\frac{2}{8}$

Hence, $\frac{18}{72}$ is equaling to $\frac{2}{8}$.

$\therefore$ Fill 2 in the place-holder.

Let Us Do-8D

1. Like Fraction: (a) $\frac{7}{8}, \frac{5}{8}, \frac{3}{8}, \frac{1}{8},$ (e) $\frac{6}{17}, \frac{5}{17}, \frac{3}{17}, \frac{1}{17}$

(g) $\frac{2}{9}, \frac{1}{9}, \frac{5}{9}, \frac{4}{9}$ (h) $\frac{2}{11}, \frac{5}{11}, \frac{6}{11}, \frac{1}{11}$

Unlike Fraction: (b) $\frac{3}{5}, \frac{7}{10}, \frac{5}{9}, \frac{6}{13}$ (c) $\frac{2}{15}, \frac{1}{13}, \frac{3}{8}, \frac{3}{13}$

(d) $\frac{3}{17}, \frac{5}{17}, \frac{11}{13}, \frac{6}{13}$ (f) $\frac{3}{11}, \frac{5}{8}, \frac{4}{9}, \frac{7}{13}$

2. Proper Fraction: (a) $\frac{3}{7}$ (d) $\frac{5}{8}$ (e) $\frac{15}{17}$ (f) $\frac{17}{23}$

Improper Fraction: (b) $\frac{8}{8}$ (c) $\frac{16}{5}$ (g) $\frac{24}{19}$ (h) $\frac{17}{17}$

3. (a) $2\frac{3}{5}=\frac{2\times 5+3}{5}=\frac{13}{5}$ (b) $3\frac{1}{8}=\frac{3\times 8+1}{8}=\frac{25}{8}$

(c) $5\frac{2}{7}=\frac{5\times 7+2}{7}=\frac{37}{7}$ (d) $4\frac{3}{10}=\frac{4\times 10+3}{10}=\frac{43}{10}$

(e) $3\frac{2}{5}=\frac{3\times5+2}{5}=\frac{17}{5}$ (f) $6\frac{5}{12}=\frac{6\times12+5}{12}=\frac{77}{12}$

(g) $7\frac{1}{6}=\frac{7\times6+1}{6}=\frac{43}{6}$ (h) $4\frac{5}{9}=\frac{4\times9+5}{9}=\frac{41}{9}$

4. (a) $\frac{29}{5}=5\frac{4}{5}$

$5\overline{)\,29\,(5}$

-25

4

(b) $\frac{44}{9}=4\frac{8}{9}$

$9\overline{)\,44\,(4}$

-36

8

(c) $\frac{49}{8}=6\frac{1}{8}$

$8\overline{)\,49\,(6}$

-48

1

(d) $\frac{71}{12}=5\frac{11}{12}$

$12\overline{)\,71\,(5}$

-60

11

(e) $\frac{68}{13}=5\frac{3}{15}$

$13\overline{)\,68\,(5}$

-65

3

(f) $\frac{47}{12}=3\frac{11}{12}$

$12\overline{)\,47\,(3}$

-36

11

(g) $\frac{76}{11}=6\frac{10}{11}$

$11\overline{)\,76\,(6}$

-66

10

(h) $\frac{104}{11}=9\frac{5}{11}$

$11\overline{)\,104\,(9}$

-99

5

Let Us Do-8E

1. (a) $\frac{5}{10}\square\frac{2}{6}$ $\Rightarrow$ first, we have to convert unlike fractions into like fractions.

LCM of 10 and $6=2\times3\times5=30$

So, $\frac{5}{10}=\frac{5\times3}{10\times3}=\frac{15}{30}$ and $\frac{2}{6}=\frac{2\times5}{6\times5}=\frac{10}{30}$

2	10, 6
3	5, 3
5	5, 1
	1, 1

Now, $\frac{15}{30}>\frac{10}{30}$ Since, $15>10$

Hence, $\frac{5}{10}\boxed{>}\frac{2}{6}$.

(b) $\frac{6}{12}\square\frac{2}{7}$ $\Rightarrow$ first, we have to convert unlike fractions into like fractions.

LCM of 12 and $7=2+2\times3\times7=84$

So, $\frac{6}{12}=\frac{6\times7}{12\times7}=\frac{42}{84}$ and $\frac{2}{7}=\frac{2\times12}{7\times12}=\frac{24}{84}$

Now, $\frac{42}{84}>\frac{24}{84}$ Since, 42 > 24

Hence, $\frac{6}{12}\boxed{>}\frac{2}{7}$.

(c) $\frac{6}{7}\square\frac{8}{15}$ $\Rightarrow$ first, we have to convert unlike fractions into like fractions.

LCM of 7 and $15=3\times5\times7=105$

So, $\frac{6}{7}=\frac{6\times15}{7\times15}=\frac{90}{105}$ and $\frac{8}{15}=\frac{8\times7}{15\times7}=\frac{56}{105}$

Now, $\frac{90}{105}>\frac{56}{105}$ Since, 90 > 56

Hence, $\frac{6}{7}\boxed{>}\frac{8}{15}$.

3	7, 15
5	7, 5
7	7, 1
	1, 1

(d) $\frac{5}{9}\square\frac{20}{27}$ $\Rightarrow$ first, we have to convert unlike fractions into like fractions.

LCM of 9 and $27=3\times3\times3=27$

So, $\frac{5}{9}=\frac{5\times3}{9\times3}=\frac{15}{27}$ and $\frac{20}{27}=\frac{20\times1}{27\times1}=\frac{20}{27}$

Now, $\frac{15}{27}<\frac{20}{27}$ Since, 15 < 20

Hence, $\frac{5}{9}\boxed{<}\frac{20}{27}$.

3	9, 27
3	3, 9
3	1, 3
	1, 1

(e) $\frac{4}{12}\square\frac{3}{5}$ $\Rightarrow$ first, we have to convert unlike fractions into like fractions.

LCM of 12 and $5=2\times2\times3\times5=60$

So, $\frac{4}{12}=\frac{4\times5}{12\times5}=\frac{20}{60}$ and $\frac{3}{5}=\frac{3\times12}{5\times12}=\frac{36}{60}$

Now, $\frac{20}{60}<\frac{36}{60}$ Since, 20 < 36

Hence, $\frac{4}{12}\boxed{<}\frac{3}{5}$.

2	12, 5
2	6, 5
3	3, 5
5	1, 5
	1, 1

(f) $\frac{9}{16} \square \frac{3}{5}$ $\Rightarrow$ first, we have to convert unlike fractions into like fractions.

LCM of 16 and $5 = 2 \times 2 \times 2 \times 2 \times 5 = 80$

So, $\frac{9}{16} = \frac{9 \times 5}{16 \times 5} = \frac{45}{80}$ and $\frac{3}{5} = \frac{3 \times 16}{5 \times 16} = \frac{48}{80}$

Now, $\frac{45}{80} < \frac{48}{80}$ Since, 45 < 48

Hence, $\frac{9}{16} \boxed{<} \frac{3}{5}$.

2	16, 5
2	8, 5
2	4, 5
2	2, 5
5	1, 5
	1, 1

2. (a) $\frac{7}{9}, \frac{5}{8}$ $\Rightarrow$ first, we have to convert unlike fractions into like fractions..

LCM of 9 and $8 = 2 \times 2 \times 2 \times 3 \times 3 = 72$

So, $\frac{7}{9} = \frac{7 \times 8}{9 \times 8} = \frac{56}{72}$ and $\frac{5}{8} = \frac{5 \times 9}{8 \times 9} = \frac{45}{72}$

Now, $\frac{56}{72} > \frac{45}{72}$ Since, 56 > 45

Hence, $\frac{7}{9} > \frac{5}{8}$.

2	8, 9
2	4, 9
2	2, 9
3	1, 9
3	1, 3
	1, 1

(b) $\frac{3}{7}, \frac{5}{11}$ $\Rightarrow$ first, we have to convert unlike fractions into like fractions.

LCM of 7 and $11 = 7 \times 11 = 77$

So, $\frac{3}{7} = \frac{3 \times 11}{7 \times 11} = \frac{33}{77}$ and $\frac{5}{11} = \frac{5 \times 7}{11 \times 7} = \frac{35}{77}$

Now, $\frac{33}{77} < \frac{35}{77}$ Since, 33 < 35

Hence, $\frac{3}{7} < \frac{5}{11}$.

7	7, 11
11	1, 11
	1, 1

(c) $\frac{4}{5}, \frac{11}{13}$ $\Rightarrow$ first, we have to convert unlike fractions into like fractions.

LCM of 5 and $13 = 5 \times 13 = 65$

So, $\frac{4}{5} = \frac{4 \times 13}{5 \times 13} = \frac{52}{65}$ and $\frac{11}{13} = \frac{11 \times 5}{13 \times 5} = \frac{55}{65}$

5	5, 13
13	1, 13
	1, 1

Now, $\frac{52}{65} < \frac{55}{65}$ Since, 52 < 55

Hence, $\frac{4}{5} < \frac{11}{13}$.

(d) $\frac{9}{17}, \frac{13}{19} \Rightarrow$ first, we have to convert unlike fractions into like fractions.

LCM of 17 and $19 = 17 \times 19 = 323$

So, $\frac{9}{17} = \frac{9 \times 19}{17 \times 19} = \frac{171}{323}$ and $\frac{13}{19} = \frac{13 \times 17}{19 \times 17} = \frac{221}{323}$

17	17, 19
19	1, 19
	1, 1

Now, $\frac{171}{323} < \frac{221}{323}$ Since, 171 < 221

Hence, $\frac{9}{17} < \frac{13}{19}$.

(e) $\frac{17}{23}, \frac{19}{25} \Rightarrow$ first, we have to convert unlike fractions into like fractions.

LCM of 23 and $25 = 5 \times 5 \times 23 = 575$

So, $\frac{17}{23} = \frac{17 \times 25}{23 \times 25} = \frac{425}{575}$ and $\frac{19}{25} = \frac{19 \times 23}{25 \times 23} = \frac{437}{575}$

5	23, 25
5	23, 5
23	23, 1
	1, 1

Now, $\frac{425}{575} < \frac{437}{575}$ Since, 425 < 437

Hence, $\frac{17}{23} < \frac{19}{25}$.

(f) $\frac{11}{16}, \frac{13}{15} \Rightarrow$ first, we have to convert unlike fractions into like fractions.

LCM of 16 and $15 = 2 \times 2 \times 2 \times 2 \times 3 \times 5 = 240$

So, $\frac{11}{16} = \frac{11 \times 15}{16 \times 15} = \frac{165}{240}$ and $\frac{13}{15} = \frac{13 \times 16}{15 \times 16} = \frac{208}{240}$

Now, $\frac{165}{240} < \frac{208}{240}$ Since, 165 < 208

Hence, $\frac{11}{16} < \frac{13}{15}$.

2	16, 15
2	8, 15
2	4, 15
2	2, 15
3	1, 15
5	1, 5
	1, 1

3. (a) $\frac{1}{4}, \frac{5}{12}, \frac{6}{10}, \frac{3}{6} \Rightarrow$ Given fractions are unlike fractions.

So, first we convert these fractions into like fractions.

LCM of 4, 12, 10 and $6 = 2 \times 2 \times 3 \times 5 = 60$

2	4, 12, 10, 6
2	2, 6, 5, 3
3	1, 3, 5, 3
5	1, 1, 5, 1
	1, 1, 1, 1

Now, $\frac{1}{4} = \frac{1 \times 15}{4 \times 15} = \frac{15}{60}, \frac{5}{12} = \frac{5 \times 5}{12 \times 5} = \frac{25}{60}$

$\frac{6}{10} = \frac{6 \times 6}{10 \times 6} = \frac{36}{60}, \frac{3}{6} = \frac{3 \times 10}{6 \times 10} = \frac{30}{60}$

On comparing, we get

$$\frac{15}{60} < \frac{25}{60} < \frac{30}{60} < \frac{36}{60} \text{ or } \frac{1}{4} < \frac{5}{12} < \frac{3}{6} < \frac{6}{10}$$

Hence, ascending order is $\frac{1}{4}, \frac{5}{12}, \frac{3}{6}, \frac{6}{10}$.

(b) $\frac{1}{4}, \frac{5}{10}, \frac{8}{15}, \frac{3}{8} \Rightarrow$ Given fractions are unlike fractions.

So, first we convert these fractions into like fractions.

LCM of 4, 10, 15 and $8 = 2 \times 2 \times 2 \times 3 \times 5 = 120$

2	4, 10, 15, 8
2	2, 5, 15, 4
2	1, 5, 15, 2
3	1, 5, 15, 1
5	1, 5, 5, 1
	1, 1, 1, 1

Now, $\frac{1}{4} = \frac{1 \times 30}{4 \times 30} = \frac{30}{120}$,

$\frac{5}{10} = \frac{5 \times 12}{10 \times 12} = \frac{60}{120}$

$\frac{8}{15} = \frac{8 \times 8}{15 \times 8} = \frac{64}{120}$,

$\frac{3}{8} = \frac{3 \times 15}{8 \times 15} = \frac{45}{120}$

On comparing, we get

$$\frac{30}{120} < \frac{45}{120} < \frac{60}{120} < \frac{64}{120} \text{ or } \frac{1}{4} < \frac{3}{8} < \frac{5}{10} < \frac{8}{15}$$

Hence, ascending order is $\frac{1}{4}, \frac{3}{8}, \frac{5}{10}, \frac{8}{15}$.

(c) $\frac{2}{3}, \frac{13}{20}, \frac{4}{10}, \frac{11}{15} \Rightarrow$ Given fractions are unlike fractions.

So, first we convert these fractions into like fractions.

LCM of 3, 20, 10 and $15 = 2 \times 2 \times 3 \times 5 = 60$

Now, $\frac{2}{3}=\frac{2\times 20}{3\times 20}=\frac{40}{60}, \frac{13}{20}=\frac{13\times 3}{20\times 3}=\frac{39}{60}$

$\frac{4}{10}=\frac{4\times 6}{10\times 6}=\frac{24}{60}, \frac{11}{15}=\frac{11\times 4}{15\times 4}=\frac{44}{60}$

2	3,20,10,15
2	3,10, 5,15
3	3, 5, 5,15
5	1, 5, 5, 5
	1, 1, 1, 1

On comparing, we get

$$\frac{24}{60}<\frac{39}{60}<\frac{40}{60}<\frac{44}{60} \text{ or } \frac{4}{10}<\frac{13}{20}<\frac{2}{3}<\frac{11}{15}$$

Hence, ascending order is $\frac{4}{10}, \frac{13}{20}, \frac{2}{3}, \frac{11}{15}$.

(d) $\frac{3}{14}, \frac{5}{21}, \frac{5}{7}, \frac{11}{42} \Rightarrow$ Given fractions are unlike fractions.

So, first we convert these fractions into like fractions.

LCM of 14, 21, 7 and $42 = 2\times 3\times 7 = 42$

Now, $\frac{3}{14}=\frac{3\times 3}{14\times 3}=\frac{9}{42}, \frac{5}{21}=\frac{5\times 2}{21\times 2}=\frac{10}{42}$

$\frac{5}{7}=\frac{5\times 6}{7\times 6}=\frac{30}{42}, \frac{11}{42}=\frac{11\times 1}{42\times 1}=\frac{11}{42}$

2	14,21,7,42
3	7,21,7,21
7	7, 7,7, 7
	1, 1,1, 1

On comparing, we get

$$\frac{9}{42}<\frac{10}{42}<\frac{11}{42}<\frac{30}{42} \text{ or } \frac{3}{14}<\frac{5}{21}<\frac{11}{42}<\frac{5}{7}$$

Hence, ascending order is $\frac{3}{14}, \frac{5}{21}, \frac{11}{42}, \frac{5}{7}$.

(e) $\frac{3}{8}, \frac{4}{5}, \frac{3}{10}, \frac{6}{15} \Rightarrow$ Given fractions are unlike fractions.

So, first we convert these fractions into like fractions.

LCM of 8, 5, 10 and $15 = 2\times 2\times 2\times 3\times 5 = 120$

Now, $\frac{3}{8}=\frac{3\times 15}{8\times 15}=\frac{45}{120}, \frac{4}{5}=\frac{4\times 24}{5\times 24}=\frac{96}{120}$

$\frac{3}{10}=\frac{3\times 12}{10\times 12}=\frac{36}{120}, \frac{6}{15}=\frac{6\times 8}{15\times 8}=\frac{48}{120}$

2	8,5,10,15
2	4,5, 5,15
2	2,5, 5,15
3	1,5, 5,15
5	1,5, 5, 5
	1,1, 1, 1

On comparing, we get

$$\frac{36}{120}<\frac{45}{120}<\frac{48}{120}<\frac{96}{120} \text{ or}$$

$$\frac{3}{10}<\frac{3}{8}<\frac{6}{15}<\frac{4}{5}$$

Hence, ascending order is $\frac{3}{10}, \frac{3}{8}, \frac{6}{15}, \frac{4}{5}$.

(f) $\frac{4}{5}, \frac{11}{25}, \frac{8}{15}, \frac{7}{20} \Rightarrow$ Given fractions are unlike fractions.

So, first we convert these fractions into like fractions.

LCM of 5, 25, 15 and $20 = 2 \times 2 \times 3 \times 5 \times 5 = 300$

Now, $\frac{4}{5} = \frac{4 \times 60}{5 \times 60} = \frac{240}{300}, \frac{11}{25} = \frac{11 \times 12}{25 \times 12} = \frac{132}{300}$

$\frac{8}{15} = \frac{8 \times 20}{15 \times 20} = \frac{160}{300}$,

$\frac{7}{20} = \frac{7 \times 15}{20 \times 15} = \frac{105}{300}$

2	5,25,15,20
2	5,25,15,10
3	5,25,15, 5
5	5,25, 5, 5
5	1, 5, 1, 1
	1, 1, 1, 1

On comparing, we get

$$\frac{105}{300} < \frac{132}{300} < \frac{160}{300} < \frac{240}{300} \text{ or } \frac{7}{20} < \frac{11}{25} < \frac{8}{15} < \frac{4}{5}$$

Hence, ascending order is $\frac{7}{20}, \frac{11}{25}, \frac{8}{15}, \frac{4}{5}$.

4. (a) $\frac{5}{6}, \frac{9}{10}, \frac{7}{9}, \frac{1}{3} \Rightarrow$ Given fractions are unlike fractions.

So, first we convert these fractions into like fractions.

LCM of 6, 10, 9 and $3 = 2 \times 3 \times 3 \times 5 = 90$

Now, $\frac{5}{6} = \frac{5 \times 15}{6 \times 15} = \frac{75}{90}, \frac{9}{10} = \frac{9 \times 9}{10 \times 9} = \frac{81}{90}$

$\frac{7}{9} = \frac{7 \times 10}{9 \times 10} = \frac{70}{90}, \frac{1}{3} = \frac{1 \times 30}{3 \times 30} = \frac{30}{90}$

2	6,10,9,3
3	3, 5,9,3
3	1, 5,3,1
5	1, 5,1,1
	1, 1,1,1

On comparing, we get

$$\frac{81}{90} > \frac{75}{90} > \frac{70}{90} > \frac{30}{90} \text{ or } \frac{9}{10} > \frac{5}{6} > \frac{7}{9} > \frac{1}{3}$$

Hence, descending order is $\frac{9}{10}, \frac{5}{6}, \frac{7}{9}, \frac{1}{3}$.

(b) $\frac{3}{5}, \frac{2}{15}, \frac{3}{4}, \frac{1}{3} \Rightarrow$ Given fractions are unlike fractions.

So, first we convert these fractions into like fractions.

LCM of 5, 15, 4 and $3 = 2 \times 2 \times 3 \times 5 = 60$

Now, $\frac{3}{5}=\frac{3\times12}{5\times12}=\frac{36}{60}, \frac{2}{15}=\frac{2\times4}{15\times4}=\frac{8}{60}$

$\frac{3}{4}=\frac{3\times15}{4\times15}=\frac{45}{60}, \frac{1}{3}=\frac{1\times20}{3\times20}=\frac{20}{60}$

2	5,15,4,3
2	5,15,2,3
3	5,15,1,3
5	5, 5,1,1
	1, 1,1,1

On comparing, we get

$\frac{45}{60}>\frac{36}{60}>\frac{20}{60}>\frac{8}{60}$ or $\frac{3}{4}>\frac{3}{5}>\frac{1}{3}>\frac{2}{15}$

Hence, descending order is $\frac{3}{4}, \frac{3}{5}, \frac{1}{3}, \frac{2}{15}$.

(c) $\frac{1}{4}, \frac{5}{10}, \frac{3}{15}, \frac{7}{18} \Rightarrow$ Given fractions are unlike fractions.

So, first we convert these fractions into like fractions.

LCM of 4, 10, 15 and $18=2\times2\times3\times3\times5=180$

Now, $\frac{1}{4}=\frac{1\times45}{4\times45}=\frac{45}{180}, \frac{5}{10}=\frac{5\times18}{10\times18}=\frac{90}{180}$

$\frac{3}{15}=\frac{3\times12}{15\times12}=\frac{36}{180}$,

$\frac{7}{18}=\frac{7\times10}{18\times10}=\frac{70}{180}$

2	4,10,15,18
2	2, 5,15, 9
3	1, 5,15, 9
3	1, 5, 5, 3
5	1, 5, 5, 1
	1, 1, 1, 1

On comparing, we get

$\frac{90}{180}>\frac{70}{180}>\frac{45}{180}>\frac{36}{180}$ or $\frac{5}{10}>\frac{7}{18}>\frac{1}{4}>\frac{3}{15}$

Hence, descending order is $\frac{5}{10}, \frac{7}{18}, \frac{1}{4}, \frac{3}{15}$.

(d) $\frac{3}{4}, \frac{1}{6}, \frac{5}{8}, \frac{4}{9} \Rightarrow$ Given fractions are unlike fractions.

So, first we convert these fractions into like fractions.

LCM of 4, 6, 8 and $9=2\times2\times2\times3\times3=72$

Now, $\frac{3}{4}=\frac{3\times18}{4\times18}=\frac{54}{72}, \frac{1}{6}=\frac{1\times12}{6\times12}=\frac{12}{72}$

$\frac{5}{8}=\frac{5\times9}{8\times9}=\frac{45}{72}, \frac{4}{9}=\frac{4\times8}{9\times8}=\frac{32}{72}$

2	4,6,8,9
2	2,3,4,9
2	1,3,2,9
3	1,3,1,9
3	1,1,1,3
	1,1,1,1

On comparing, we get

$\frac{54}{72}>\frac{45}{72}>\frac{32}{72}>\frac{12}{72}$ or $\frac{3}{4}>\frac{5}{8}>\frac{4}{9}>\frac{1}{6}$

Hence, descending order is $\frac{3}{4}, \frac{5}{8}, \frac{4}{9}, \frac{1}{6}$.

(e) $\frac{1}{7}, \frac{2}{21}, \frac{6}{14}, \frac{3}{35} \Rightarrow$ Given fractions are unlike fractions.

So, first we convert these fractions into like fractions.

LCM of 7, 21, 14 and $35 = 2 \times 3 \times 5 \times 7 = 210$

Now, $\frac{1}{7} = \frac{1 \times 30}{7 \times 30} = \frac{30}{210}, \frac{2}{21} = \frac{2 \times 10}{21 \times 10} = \frac{20}{210}$

$\frac{6}{14} = \frac{6 \times 15}{14 \times 15} = \frac{90}{210}$,

$\frac{3}{35} = \frac{3 \times 6}{35 \times 6} = \frac{18}{210}$

2	7,21,14,35
3	7,21, 7,35
5	7, 7, 7,35
7	7, 7, 7, 7
	1, 1, 1, 1

On comparing, we get

$\frac{90}{210} > \frac{30}{210} > \frac{20}{210} > \frac{18}{210}$ or $\frac{6}{14} > \frac{1}{7} > \frac{2}{21} > \frac{3}{35}$

Hence, descending order is $\frac{6}{14}, \frac{1}{7}, \frac{2}{21}, \frac{3}{35}$.

(f) $\frac{5}{9}, \frac{3}{27}, \frac{6}{18}, \frac{3}{6} \Rightarrow$ Given fractions are unlike fractions.

So, first we convert these fractions into like fractions.

LCM of 9, 27, 18 and $6 = 2 \times 3 \times 3 \times 3 = 54$

Now, $\frac{5}{9} = \frac{5 \times 6}{9 \times 6} = \frac{30}{54}, \frac{3}{27} = \frac{3 \times 2}{27 \times 2} = \frac{6}{54}$

$\frac{6}{18} = \frac{6 \times 3}{18 \times 3} = \frac{18}{54}, \frac{3}{6} = \frac{3 \times 9}{6 \times 9} = \frac{27}{54}$

2	9,27,18,6
3	9,27, 9,3
3	3, 9, 3,1
3	1, 3, 1,1
	1, 1, 1,1

On comparing, we get

$\frac{30}{54} > \frac{27}{54} > \frac{18}{54} > \frac{6}{54}$ or $\frac{5}{9} > \frac{3}{6} > \frac{6}{18} > \frac{3}{27}$

Hence, descending order is $\frac{5}{9}, \frac{3}{6}, \frac{6}{18}, \frac{3}{27}$.

Let Us Do-8F

1. (a) $\frac{4}{15} + \frac{6}{15} = \frac{4+6}{15} = \frac{10}{15}$ (b) $\frac{5}{11} + \frac{3}{11} = \frac{5+3}{11} = \frac{8}{11}$

(c) $\frac{6}{23} + \frac{7}{23} = \frac{6+7}{23} = \frac{13}{23}$ (d) $\frac{3}{8} + \frac{1}{8} = \frac{3+1}{8} = \frac{4}{8}$

(e) $\frac{4}{41}+\frac{12}{41}=\frac{4+12}{41}=\frac{16}{41}$

(f) $\frac{7}{32}+\frac{10}{32}=\frac{7+10}{32}=\frac{17}{32}$

2. (a) $\frac{7}{8}+\frac{5}{12}$

LCM of 8 and 12 = 24

$=\frac{21+10}{24}=\frac{31}{24}$

(b) $\frac{8}{20}+\frac{3}{25}$

LCM of 20 and 25 = 100

$=\frac{40+12}{100}=\frac{52}{100}=\frac{13}{25}$

(c) $\frac{7}{12}+\frac{5}{16}$

LCM of 12 and 16 = 48

$=\frac{28+15}{48}=\frac{43}{48}$

(d) $\frac{2}{5}+\frac{4}{15}$

LCM of 5 and 15 = 15

$=\frac{6+4}{15}=\frac{10}{15}=\frac{2}{3}$

(e) $\frac{3}{14}+\frac{5}{21}$

LCM of 14 and 21 = 42

$=\frac{9+10}{42}=\frac{19}{42}$

(f) $\frac{4}{18}+\frac{5}{27}$

LCM of 18 and 27

$=\frac{12+10}{54}=\frac{22}{54}=\frac{11}{27}$

3. (a) $\frac{3}{4}+\frac{5}{8}+\frac{1}{12}$

LCM of 4, 8 and 12 = 24

$=\frac{18+15+2}{24}=\frac{35}{24}$

(b) $\frac{1}{3}+\frac{1}{5}+\frac{2}{15}$

LCM of 3, 5 and 15 = 15

$=\frac{5+3+2}{15}=\frac{10}{15}=\frac{2}{3}$

(c) $\frac{3}{4}+\frac{1}{5}+\frac{3}{8}$

LCM of 4, 5 and 8 = 40

$=\frac{30+8+15}{40}=\frac{53}{40}$

(d) $\frac{5}{8}+\frac{3}{16}+\frac{7}{24}$

LCM of 8, 16 and 24 = 48

$=\frac{30+9+14}{48}=\frac{53}{48}$

(e) $1+\frac{4}{15}+\frac{3}{20}$

LCM of 1, 15 and 20 = 60

$=\frac{60+16+9}{60}=\frac{85}{60}=\frac{17}{12}$

(f) $\frac{4}{15}+\frac{2}{25}+\frac{1}{10}$

LCM of 15, 25 and 10 = 150

$=\frac{40+12+15}{150}=\frac{67}{150}$

4. (a) $2\frac{1}{5}+4\frac{2}{3}+\frac{11}{5}+\frac{14}{3}$

LCM of 5 and 3 = 15

(b) $1\frac{3}{5}+2\frac{7}{10}=\frac{8}{5}+\frac{27}{10}$

LCM of 5 and 10 = 10

$$= \frac{33+70}{15} = \frac{103}{15} = 6\frac{13}{15}$$

(c) $3\frac{3}{4} + 1\frac{1}{8} = \frac{15}{4} + \frac{9}{8}$

LCM of 4 and 8 = 8

$$= \frac{30+9}{8} = \frac{39}{8} = 4\frac{7}{8}$$

$$= \frac{16+27}{10} = \frac{43}{10} = 4\frac{3}{10}$$

(d) $1\frac{3}{4} + 2\frac{1}{5} + \frac{1}{6}$

$$= \frac{7}{4} + \frac{11}{5} + \frac{1}{6}$$

LCM of 4, 5 and 6 = 60

$$= \frac{105+132+10}{60} = \frac{247}{60}$$

$$= 4\frac{7}{60}$$

(e) $4\frac{5}{6} + 2\frac{1}{6} + 1\frac{1}{2}$

$$= \frac{29}{6} + \frac{13}{6} + \frac{3}{2}$$

LCM of 6 and 2 = 6

$$= \frac{29+13+9}{6} = \frac{51}{6}$$

$$= \frac{17}{2} = 8\frac{1}{2}$$

(f) $5\frac{5}{6} + 6\frac{11}{24} + 1\frac{3}{16}$

$$= \frac{35}{6} + \frac{155}{24} + \frac{19}{16}$$

LCM of 6, 24 and 16 = 48

$$= \frac{280+310+57}{48} = \frac{647}{48}$$

$$= 13\frac{23}{48}$$

Let Us Do-8G

1. $\frac{5}{7} - \frac{2}{7} = \frac{5-2}{7} = \frac{3}{7}$

2. $\frac{5}{9} - \frac{2}{9} = \frac{5-2}{9} = \frac{3}{9}$

3. $\frac{7}{10} - \frac{3}{10} = \frac{7-3}{10} = \frac{4}{10}$

4. $\frac{6}{8} - \frac{3}{8} = \frac{6-3}{8} = \frac{3}{8}$

5. $\frac{2}{3} - \frac{1}{3} = \frac{2-1}{3} = \frac{1}{3}$

6. $\frac{3}{4} - \frac{2}{4} - \frac{3-2}{4} = \frac{1}{4}$

7. $\frac{8}{11} - \frac{3}{11} = \frac{8-3}{11} = \frac{5}{11}$

8. $\frac{8}{13} - \frac{6}{13} = \frac{8-6}{13} = \frac{2}{13}$

9. $\frac{7}{15} - \frac{2}{15} = \frac{7-2}{15} = \frac{5}{15}$

10. $\frac{11}{14} - \frac{6}{14} = \frac{11-6}{14} = \frac{5}{14}$

11. $\frac{16}{19} - \frac{12}{19} = \frac{16-12}{19} = \frac{4}{19}$

12. $\frac{18}{37} - \frac{15}{37} = \frac{18-15}{37} = \frac{3}{37}$

13. $\frac{8}{10}-\frac{3}{10}=\frac{8-3}{10}=\frac{5}{10}$

14. $\frac{17}{25}-\frac{9}{25}=\frac{17-9}{25}=\frac{8}{25}$

15. $\frac{16}{20}-\frac{13}{20}=\frac{16-13}{20}=\frac{3}{20}$

16. $\frac{9}{20}-\frac{7}{20}=\frac{9-7}{20}=\frac{2}{20}$

17. $\frac{2}{7}$ from $\frac{6}{7}$ $\Rightarrow$ $\frac{6}{7}-\frac{2}{7}=\frac{6-2}{7}=\frac{4}{7}$

18. $\frac{3}{10}$ from $\frac{7}{10}$ $\Rightarrow$ $\frac{7}{10}-\frac{3}{10}=\frac{7-3}{10}=\frac{4}{10}$

19. $\frac{1}{6}$ from $\frac{5}{6}$ $\Rightarrow$ $\frac{5}{6}-\frac{1}{6}=\frac{5-1}{6}=\frac{4}{6}$

20. $\frac{3}{8}$ from $\frac{7}{8}$ $\Rightarrow$ $\frac{7}{8}-\frac{3}{8}=\frac{7-3}{8}=\frac{4}{8}$

21. $\frac{2}{11}$ from $\frac{9}{11}$ $\Rightarrow$ $\frac{9}{11}-\frac{2}{11}=\frac{9-2}{11}=\frac{7}{11}$

22. $\frac{6}{20}$ from $\frac{19}{20}$ $\Rightarrow$ $\frac{19}{20}-\frac{6}{20}=\frac{19-6}{20}=\frac{13}{20}$

23. $\frac{3}{7}$ and $\frac{5}{7}$ $\Rightarrow$ $\frac{5}{7}-\frac{3}{7}=\frac{5-3}{7}=\frac{2}{7}$

24. $\frac{3}{9}$ and $\frac{7}{9}$ $\Rightarrow$ $\frac{7}{9}-\frac{3}{9}=\frac{7-3}{9}=\frac{4}{9}$

25. $\frac{6}{15}$ and $\frac{13}{15}$ $\Rightarrow$ $\frac{13}{15}-\frac{6}{15}=\frac{13-6}{15}=\frac{7}{15}$

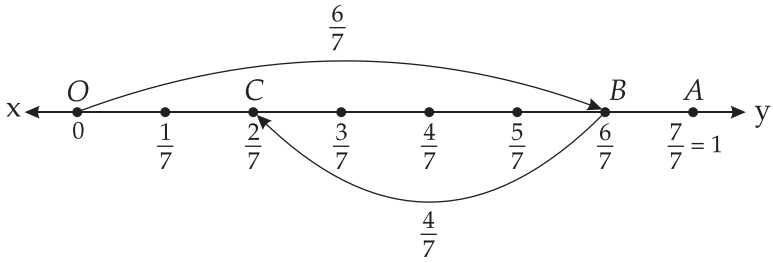
26. $\frac{4}{17}$ and $\frac{9}{17}$ $\Rightarrow$ $\frac{9}{17}-\frac{4}{17}=\frac{9-4}{17}=\frac{5}{17}$

27. $\frac{8}{20}$ and $\frac{17}{20}$ $\Rightarrow$ $\frac{17}{20}-\frac{8}{20}=\frac{17-8}{20}=\frac{9}{20}$

28. $\frac{13}{25}$ and $\frac{27}{25}$ $\Rightarrow$ $\frac{27}{25}-\frac{13}{25}=\frac{27-13}{25}=\frac{14}{25}$

29. Draw a line XY. Cut-off a line segment $OA = 1$ unit. Divide OA into 7 equal parts.

Then each part represents $\frac{1}{7}$ of the whole.



Starting from O, move 6 steps to reach B.

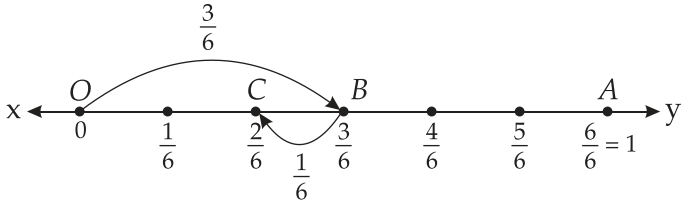
Now, move back by 4 steps from B to reach at C as shown above. Then OC is required fraction. Obviously, $OC = \frac{2}{7}$.

Also, 6 steps − 4 steps = 2 steps

or $\frac{6}{7} - \frac{4}{7} = \frac{2}{7}$ $\left[\because 1 \text{ step} = \frac{1}{7} \text{ of whole}\right]$

30. Draw a line XY. Cut-off a line segment $OA = 1$ unit. Divide OA into 6 equal parts.

Then each part represents $\frac{1}{6}$ of the whole.

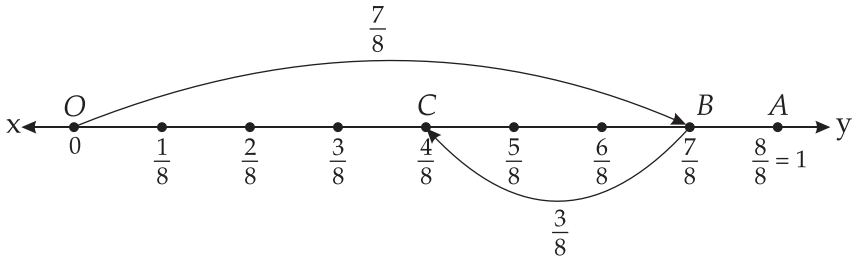


Starting from O, move 3 steps to reach B.

Now, move back by 1 step from B to reach at C as shown above. Then OC is required fraction. Obviously, $OC = \frac{2}{6}$.

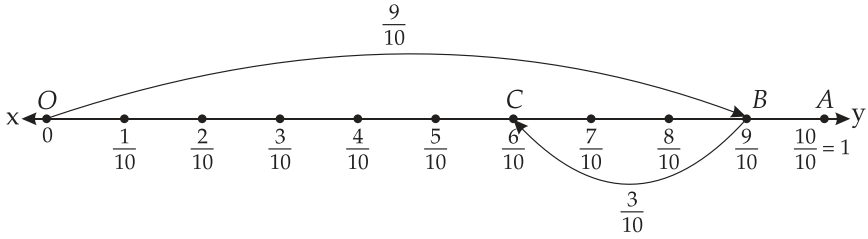
31. Draw a line XY. Cut-off a line segment $OA = 1$ unit. Divide OA into 8 equal parts.

Then each part represents $\frac{1}{8}$ of the whole.



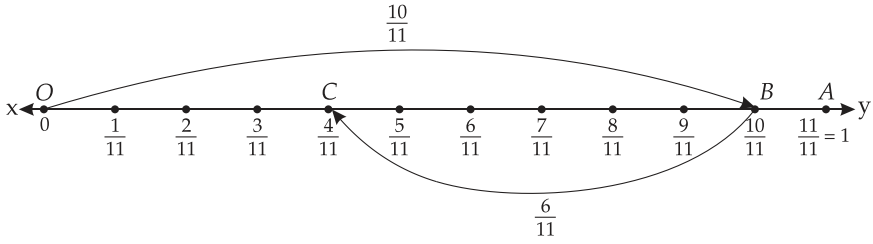
Starting from O, move 7 steps to reach B.
Now, move back by 3 steps from B to reach at C as shown above. Then OC is required fraction. Obviously, $OC = \frac{4}{8}$.

32. Draw a line XY. Cut-off a line segment $OA = 1$ unit.
Divide OA into 10 equal parts.
Then each part represents $\frac{1}{10}$ of the whole.



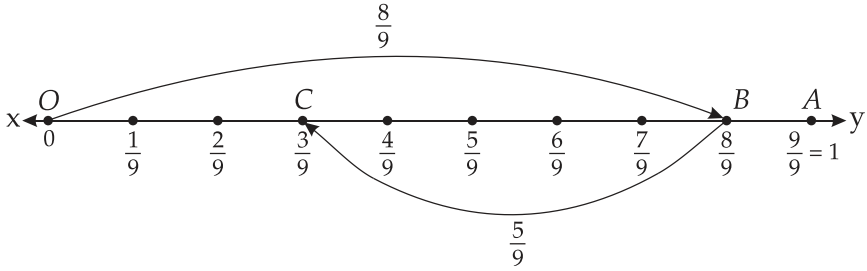
Starting from O, move 9 steps to reach B.
Now, move back by 3 steps from B to reach at C as shown above. Then OC is required fraction. Obviously, $OC = \frac{6}{10}$.

33. Draw a line XY. Cut-off a line segment $OA = 1$ unit.
Divide OA into 11 equal parts. Then each part represents $\frac{1}{11}$ of the whole.



Starting from O, move 10 steps to reach B.
Now, move back by 6 steps from B to reach at C as shown above. Then OC is required fraction. Obviously, $OC = \frac{4}{11}$.

34. Draw a line XY. Cut-off a line segment $OA = 1$ unit.
Divide OA into 9 equal parts. Then each part represents $\frac{1}{9}$ of the whole.



Starting from O, move 8 steps to reach B.
Now, move back by 5 steps from B to reach at C as shown above. Then OC is required fraction. Obviously, $OC = \frac{3}{9}$.

35. The difference between $\frac{1}{9}$ and $\frac{7}{9} = \frac{7}{9} - \frac{1}{9} = \frac{7-1}{9} = \frac{6}{9}$

Thus, $\frac{6}{9}$ should be added to get $\frac{7}{9}$.

36. The difference between $\frac{4}{13}$ and $\frac{11}{13} = \frac{11}{13} - \frac{4}{13} = \frac{11-4}{13} = \frac{7}{13}$

Thus, $\frac{7}{13}$ should be added to get $\frac{11}{13}$.

37. Vipul spent part of his money on the purchase of a pant and a shirt $= \frac{7}{9}$

The shirt costs of the money $= \frac{2}{9}$

The pant cost of the money $= \frac{7}{9} - \frac{2}{9} = \frac{7-2}{9} = \frac{5}{9}$

Thus, $\frac{5}{9}$ part of money was spent on the pant by him.

38. Ram read the part of his book on Monday $= \frac{7}{11}$

He read the part of his book on Tuesday $= \frac{2}{11}$

He read the more part on Monday $= \frac{7}{11} - \frac{2}{11} = \frac{5}{11}$

Thus, $\frac{5}{11}$ part more of the book he read on Monday.

39. Total salary of a man =1 whole $= \frac{9}{9}$

A man spends part of his salary on food $= \frac{4}{9}$

He spends part of his salary on clothing $= \frac{1}{9}$

Total spends part of his salary $= \frac{4}{9} + \frac{1}{9} = \frac{5}{9}$

After spends the part of his salary will be left

$= \frac{9}{9} - \frac{5}{9} = \frac{9-5}{9} = \frac{4}{9}$

Thus, $\frac{4}{9}$ part of his salary will be left.

Roman Numerals

Let Us Do-9A

1. (a) IV = 4
(b) VII = V + II = 5 + 2 = 7
(c) IX = 9
(d) XII = X + II = 10 + 2 = 12
(e) XVI = X + V + I = 10 + 5 + 1 = 16
(f) XXIV = X + X + IV = 10 + 10 + 4 = 24
(g) XXIX = X + X + IX = 10 + 10 + 9 = 29
(h) XXXIV = X + X + X + IV = 10 + 10 + 10 + 4 = 34
(i) XV = X + V = 10 + 5 = 15
(j) XXXIX = X + X + X + IX = 10 + 10 + 10 + 9 = 39

(k) XXXIII = X + X + X + III = 10 + 10 + 10 + 3 = 33

(l) XXXVI = X + X + X + V + I
= 10 + 10 + 10 + 5 + 1 = 36

2. (a) 3 = III

(b) 8 = 5 + 3 = V + III = VIII

(c) 12 = 10 + 2 = X + II = XII

(d) 16 = 10 + 5 + 1 = X + V + I = XVI

(e) 19 = 10 + 9 = X + IX = XIX

(f) 24 = 10 + 10 + 4 = X + X + IV = XXIV

(g) 34 = 10 + 10 + 10 = 4 = X + X + X + IV = XXXIV

(h) 37 = 10 + 10 + 10 + 5 + 2
= X + X + X + V + II = XXXVII

(i) 27 = 10 + 10 + 5 + 2 = X + X + V + II = XXVII

(j) 31 = 10 + 10 + 10 + 1 = X + X + X + I = XXXI

(k) 15 = 10 + 5 = X + V = XV

(l) 39 = 10 + 10 + 10 + 9 = X + X + X + IX = XXXIX

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

4. (a) XX = X + X = 10 + 10 = 20. So this is correct matching.

(b) XIX = X + IX = 10 + 9 = 19.
So this is not correct matching.

(c) XIV = X + IV = 10 + 4 = 14.
So this is correct matching.

(d) XXXIV = X + X + X + IV = 10 + 10 + 10 + 4 = 34.
So this is not correct matching.

(e) XXXIX = X + X + X + IX = 10 + 10 + 10 + 9 = 39.
So this is correct matching.

(f) V = 5. So this is correct matching.

Money

Let Us Do-10A

1. (a) 20 rupees of 65 paise = Rupees twenty and paise sixty-five

(b) 18 rupees 70 paise = Rupees eighteen and paise seventy
(c) 53 rupees 18 paise = Rupees fifty-three and paise eighteen
(d) 66 rupees 5 paise = Rupees sixty-six and paise five
(e) 128 rupees = Rupees one hundred twenty-eight
(f) 11 rupees 1 paise = Rupees eleven and paisa one
(g) 93 paise = Ninety three paise
(h) 80 paise = Eighty paise
(i) 207 rupees 55 paise = Rupees two hundred seven and paise fifty-five
(j) 55 rupees 66 paise = Rupees fifty-five and paise sixty-six

2. (a) 6 rupees 75 paise = ₹ 6.75
(b) 8 rupees 90 paise = ₹ 8.90
(c) 60 rupees 68 paise = ₹ 60.68
(d) 55 rupees 46 paise = ₹ 55.46
(e) 10 rupees 10 paise = ₹ 10.10
(f) 174 rupees = ₹ 174
(g) 200 rupees = ₹ 200
(h) 637 rupees 80 paise = ₹ 637.80
(i) 17 rupees 19 paise = ₹ 17.19
(j) 4 rupees 7 paise = ₹ 4.07
(k) 44 rupees 4 paise = ₹ 44.04
(l) 2 rupee 1 paisa = ₹ 2.01
(m) 1 rupee = ₹ 1
(n) 63 paise = 63 P
(o) 2 paise = 2 P
(p) 1 paisa = 1 P

3. (a) ₹ 6.35 = Rupees six and paise thirty-five
(b) ₹ 21.10 = Rupees twenty-one and paise ten
(c) ₹ 18.98 = Rupees eighteen and paise ninety-eight
(d) ₹ 11.64 = Rupees eleven and paise sixty-four
(e) ₹ 62.08 = Rupees sixty-two and paise eight
(f) ₹ 30.06 = Rupees thirty and paise six
(g) ₹ 46.00 = Rupees forty-six
(h) ₹ 3.05 = Rupees three and paise five
(i) ₹ 0.46 = Paise forty-six
(j) ₹ 0.60 = Paise sixty

(k) ₹ 222.05 = Rupees two hundred twenty-two and paise five
(l) ₹ 0.03 = paise three
(m) ₹ 448.06 = Rupees four hundred forty-eight and paise six
(n) ₹ 206.07 = Rupees two hundred six and paise seven
(o) ₹ 76.54 = Rupees seventy-six and paise fifty-four

4. (a) 3 rupees = 3 × 100 P = 300 P
(b) 22 rupees = 22 × 100 P = 2200 P
(c) 6 rupees = 6 × 100 P = 600 P
(d) 8 rupees 69 paise = 8 × 100 P + 69 P
= 800 P + 69 P = 869 P
(e) 28 rupees 10 paise = 28 × 100 P + 10 P
= 2800 P + 10 P = 2810 P
(f) 12 rupees 19 paise = 12 × 100 P + 19 P
= 1200 P + 19 P = 1219 P
(g) 44 rupees 6 paise = 44 × 100 P + 6 P
= 4400 P + 6 P = 4406 P
(h) 7 rupees 9 paise = 7 × 100 P + 9 P
= 700 P + 9 P = 709 P
(i) 1 rupee 1 paisa = 1 × 100 P + 1 P
= 100 P + 1 P = 101 P
(j) ₹ 0.96 = 0 × 100 P + 96 P = 0 P + 96 P = 96 P
(k) ₹ 0.20 = 0 × 100 P + 20 P = 0 P + 20 P = 20 P
(l) ₹ 0.05 = 0 × 100 P + 5 P = 0 P + 5 P = 5 P
(m) 244 rupees 55 paise = 244 × 100 P + 55 P
= 24400 P + 55 P = 24455 P
(n) 111 rupees 99 paise = 111 × 100 P + 99 P
= 11100 P + 99 P = 11199 P

5. Short-cut Method : To convert an amount expressed in figures into paise, we remove the symbol '₹' and the dot (.) and thus get the number of paise.
(a) ₹ 2.65 = 265 paise (b) ₹ 0.75 = 75 paise
(c) ₹ 26.33 = 2633 paise (d) ₹ 56.55 = 5655 paise
(e) ₹ 292.32 = 29232 paise (f) ₹ 625.27 = 62537 paise
(g) ₹ 1979.63 = 197963 paise (h) ₹ 2537.77 = 253777 paise

(i) ₹ 4397.00 = 439700 paise (j) ₹ 237.56 = 23756 paise
(k) ₹ 522.24 = 52224 paise (l) ₹ 325.46 = 32546 paise

6. (a) 05 P = 5 ÷ 100 = ₹ 0.05
(b) 55 P = 55 ÷ 100 = ₹ 0.55
(c) 111 P = 111 ÷ 100 = ₹ 1.11
(d) 252 P = 252 ÷ 100 = ₹ 2.52
(e) 695 P = 695 ÷ 100 = ₹ 6.95
(f) 1895 P = 1895 ÷ 100 = ₹ 18.95
(g) 4635 P = 4635 ÷ 100 = ₹ 46.35
(h) 26592 P = 26592 ÷ 100 = ₹ 265.92
(i) 43254 P = 43254 ÷ 100 = ₹ 432.54
(j) 39765 P = 39765 ÷ 100 = ₹ 397.65
(k) 42932 P = 42932 ÷ 100 = ₹ 429.32
(l) 32542 P = 32542 ÷ 100 = ₹ 325.42

7. (a) ₹ 2.50 = 250 paise = 250 ÷ 50 = 5
There is 5 number of 50-paise coins will make ₹ 2.50.
(b) ₹ 9.50 = 950 paise = 950 ÷ 50 = 19
There is 19 number of 50-paise coins will make ₹ 9.50.
(c) ₹ 25.00 = 2500 paise = 2500 ÷ 50 = 50
There is 50 number of 50-paise coins will make ₹ 25.00.
(d) ₹ 85 = 8500 paise = 8500 ÷ 50 = 170
There is 170 number of 50-paise coins will make ₹ 85.

8. (a) ₹ 7.50 = 750 paise = 750 ÷ 25 = 30
There is 30 number of 25-paise coins will make ₹ 7.50.
(b) ₹ 10.25 = 1025 paise = 1025 ÷ 25 = 41
There is 41 number of 25-paise coins will make ₹ 10.25.
(c) ₹ 27.75 = 2775 paise = 2775 ÷ 25 = 111
There is 111 number of 25-paise coins will make ₹ 27.75.
(d) ₹ 65 = 6500 paise = 6500 ÷ 25 = 260
There is 260 number of 25-paise coins will make ₹ 65.

9. (a) ₹ 2.50 = 250 paise = 250 ÷ 10 = 25
There is 25 number of 10-paise coins will make ₹ 2.50.
(b) ₹ 9.70 = 970 paise = 970 ÷ 10 = 97
There is 97 number of 10-paise coins will make ₹ 9.70.
(c) ₹ 15.20 = 1520 paise = 1520 ÷ 10 = 152
There is 152 number of 10-paise coins will make ₹ 15.20.

(d) ₹ 137 = 13700 paise = 13700 ÷ 10 = 1370
There is 1370 number of 10-paise coins will make ₹ 137.

10. (a) ₹ 3.50 = 350 paise = 350 ÷ 5 = 70
There is 70 number of 5-paise coins will make ₹ 3.50.
(b) ₹ 9 = 900 paise = 900 ÷ 5 = 180
There is 180 number of 5-paise coins will make ₹ 9.
(c) ₹ 25.20 = 2520 paise = 2520 ÷ 5 = 504
There is 504 number of 5-paise coins will make ₹ 25.20.
(d) ₹ 55.65 = 5565 paise = 5565 ÷ 5 = 1113
There is 1113 number of 5-paise coins will make ₹ 55.65.

Let Us Do-10B

1. 8 rupees 26 paise = 800 P + 26 P = 826 P
6 rupees 40 paise = 600 P + 40 P = 640 P
Now, add the both amounts = 826 P + 640 P = 1466 P
= 1466 ÷ 100 = ₹ 14.66
Hence, the sum of the given amounts is ₹ 14.66.

2. 25 rupees 65 paise = 2500 P + 65 P = 2565 P
36 rupees 55 paise = 3600 P + 55 P = 3655 P
Now, add the both amounts = 2565 P + 3655 P = 6220 P
= 6220 ÷ 100 = ₹ 62.20
Hence, the sum of the given amounts is ₹ 62.20.

3. 72 rupees 10 paise = 7200 P + 10 P = 7210 P
18 rupees 76 paise = 1800 P + 76 P = 1876 P
Now, add the both amounts = 7210 P + 1876 P = 9086 P
= 9086 ÷ 100 = ₹ 90.86
Hence, the sum of the given amounts is ₹ 90.86.

4. ₹ 81.10 = 8110 P
₹ 157.45 = 15745 P
Now, add the both amounts = 8100 P + 15745 P = 23855 P
= 23855 ÷ 100 = ₹ 238.55
Hence, the sum of the given amounts is ₹ 238.55.

5. ₹ 65.70 = 6570 P
₹ 70.65 = 7065 P
Now, add the all amounts = 6570 P + 7065 P = 13635 P

= 13635 ÷ 100 = ₹ 136.35

Hence, the sum of the given amounts is ₹ 136.35.

6. ₹ 6.30 = 630 P

₹ 60.30 = 6030 P

₹ 76.60 = 7660 P

Now, add the all amounts = 630 P + 6030 P + 7660 P

= 14320 P = 14320 ÷ 100 = ₹ 143.20

Hence, the sum of the given amounts is ₹ 143.20.

7. ₹ 35.95 = 3595 P

₹ 52.75 = 5275 P

₹ 18.65 = 1865 P

Now, add the all amounts = 3595 P + 5275 P + 1865 P

= 10735 P = 10735 ÷ 100 = ₹ 107.35

Hence, the sum of the given amounts is ₹ 107.35.

8.

	₹ 14 . 35
+	₹ 6 . 06
	₹ 20 . 41

9.

	₹ 36 . 65
+	₹ 28 . 15
	₹ 64 . 80

10.

	₹ 95 . 36
+	₹ 36 . 95
	₹ 132 . 31

11.

	₹ 54 . 36
+	₹ 25 . 31
	₹ 79 . 67

12.

	₹ 75 . 64
+	₹ 144 . 23
	₹ 219 . 87

13.

	₹ 406 . 65
+	₹ 276 . 40
	₹ 683 . 05

14.

	₹ 126 . 40
	₹ 302 . 09
+	₹ 49 . 53
	₹ 478 . 02

15.

	₹ 462 . 82
	₹ 89 . 61
+	₹ 217 . 56
	₹ 769 . 99

16.

	₹ 126 . 60
+	₹ 159 . 80
	₹ 286 . 40

17.

	₹ 339 . 43
+	₹ 463 . 69
	₹ 803 . 12

18.

	₹ 514 . 29
+	₹ 246 . 53
	₹ 760 . 82

19.

	₹ 199 . 99
	₹ 44 . 44
+	₹ 23 . 23
	₹ 267 . 66

20.

	₹	290 . 80
	₹	142 . 00
	₹	64 . 08
+	₹	1 . 05
	₹	497 . 93

21.

	₹	103 . 05
	₹	283 . 56
+	₹	189 . 75
	₹	576 . 36

Let Us Do-10C

1. ₹ 69.85 = 6985 paise and ₹ 95.38 = 9538 paise
Now, subtract the both amounts = 9538 P – 6985 P
= 2553 P = 2553 ÷ 100 = ₹ 25.53
So, when we subtract ₹ 69.85 from ₹ 95.38 the balance amount is ₹ 25.53.

2. ₹ 29.03 = 2903 paise and ₹ 86.81 = 8681 paise
Now, subtract the both amounts = 8681 P – 2903 P
= 5778 P = 5778 ÷ 100 = ₹ 57.78
So, when we subtract ₹ 29.03 from ₹ 86.81 the balance amount is ₹ 57.78.

3. ₹ 90.38 = 9038 paise and ₹ 103.02 = 10302 paise
Now, subtract the both amounts = 10302 P – 9038 P
= 1264 P = 1264 ÷ 100 = ₹ 12.64
So, when we subtract ₹ 90.38 from ₹ 103.02 the balance amount is ₹ 12.64.

4. ₹ 137.65 = 13765 paise and ₹ 380.60 = 38060 paise
Now, subtract the both amounts = 38060 P – 13765 P
= 24295 P = 24295 ÷ 100 = ₹ 242.95
So, when we subtract ₹ 137.65 from ₹ 380.60 the balance amount is ₹ 242.95.

5. ₹ 2.05 = 205 paise and 80 paise
Now, subtract the both amounts = 205 P – 80 P = 125 P
= 125 ÷ 100 = ₹ 1.25
So, when we subtract 80 P from ₹ 2.05 the balance amount is ₹ 1.25.

6. ₹ 119.86 = 11986 paise and ₹ 198.05 = 19805 paise
Now, subtract the both amounts = 19805 P – 11986 P
= 7819 P = 7819 ÷ 100 = ₹ 78.19
So, when we subtract ₹ 119.86 from ₹ 198.05 the balance amount is ₹ 78.19.

7. ₹ 73.80 = 7380 paise and ₹ 198.05 = 19805 paise
Now, subtract the both amounts = 19805 P – 7380 P
= 12425 P = 12425 ÷ 100 = ₹ 124.25
So, when we subtract ₹ 73.80 from ₹ 198.05 the balance amount is ₹ 124.25.

8. ₹ 119.09 = 11909 paise and ₹ 210.10 = 21010 paise
Now, subtract the both amounts = 21010 P – 11909 P
= 9101 P = 9101 ÷ 100 = ₹ 91.01
So, when we subtract ₹ 119.09 from ₹ 210.10 the balance amount is ₹ 91.01.

9. ₹ 120.75 = 12075 paise and ₹ 202.10 = 20210 paise
Now, subtract the both amounts = 20210 P – 12075 P
= 8135 P = 8135 ÷ 100 = ₹ 81.35
So, when we subtract ₹ 120.75 from ₹ 202.10 the balance amount is ₹ 81.35.

10. ₹ 20.20 = 2020 paise and 65 paise
Now, subtract the both amounts = 2020 P – 65 P = 1955 P
= 1955 ÷ 100 = ₹ 19.55
So, when we subtract 65 P from ₹ 20.10 the balance amount is ₹ 19.55.

11. ₹ 38.05 = 3805 paise and 100 rupees = 10000 paise
Now, subtract the both amounts = 10000 P – 3805 P
= 6195 P = 6195 ÷ 100 = ₹ 61.95
So, when we subtract ₹ 38.05 from 100 rupees the balance amount is ₹ 61.95.

12.

	₹ 87 . 37	
–	₹ 79 . 35	
	₹ 8 . 02	

13.

	₹ 156 . 08	
–	₹ 148 . 30	
	₹ 7 . 78	

14.

	₹ 569 . 82	
–	₹ 325 . 57	
	₹ 244 . 25	

15.

	₹ 985 . 85	
–	₹ 766 . 96	
	₹ 218 . 89	

16.

	₹ 455 . 55	
–	₹ 366 . 66	
	₹ 88 . 89	

17.

	₹ 900 . 35	
–	₹ 777 . 96	
	₹ 122 . 39	

18.

	₹ 456 . 50	
–	₹ 179 . 85	
	₹ 276 . 65	

19.

	₹ 415 . 40	
–	₹ 378 . 65	
	₹ 36 . 75	

20. 85 P – 64 P = 21 P
Hence, the difference between 85 paise and 64 paise is 21 paise.

21. 3 rupees = 300 P
300 P – 75 P = 225 P = 225 ÷ 100 = ₹ 2.25
Hence, the difference between 75 paise and 3 rupees is ₹ 2.25.

22. 5 rupees = 500 P
500 P – 94 P = 406 P = 406 ÷ 100 = ₹ 4.06
Hence, the difference between 94 paise and 5 rupees is ₹ 4.06.

23. ₹ 30.05 = 3005 P and ₹ 29.58 = 2958 P
3005 P – 2958 P = 47 P
Hence, the difference between ₹ 30.05 and ₹ 29.58 is 47 P.

24. ₹ 47.66 = 4766 P and ₹ 29.75 = 2975 P
4766 P – 2975 P = 1791 P = 1791 ÷ 100 = ₹ 17.91
Hence, the difference between ₹ 47.66 and ₹ 29.75 is ₹ 17.91.

25. ₹ 0.86 = 86 P and ₹ 2.06 = 206 P
206 P – 86 P = 120 P = 120 ÷ 100 = ₹ 1.20
Hence, the difference between ₹ 0.86 and ₹ 2.06 is ₹ 1.20.

26. ₹ 163.15 = 16315 P and ₹ 156.63 = 15663 P
16315 P – 15663 P = 652 P = 652 ÷ 100 = ₹ 6.52
Hence, the difference between ₹ 163.15 and ₹ 156.63 is ₹ 6.52.

27. ₹ 423.30 = 42330 P and ₹ 129.95 = 12995 P
42330 P – 12995 P = 29335 P = 29335 ÷ 100 = ₹ 293.35
Hence, the difference between ₹ 423.30 and ₹ 129.95 is ₹ 293.35.

28. ₹ 500 = 50000 P and ₹ 383.76 = 38376 P
50000 P – 38376 P = 11624 P = 11624 ÷ 100 = ₹ 116.24
Hence, the difference between ₹ 500 and ₹ 383.76 is ₹ 116.24.

29. ₹ 367.05 = 36705 P and ₹ 296.95 = 29695 P
36705 P – 29695 P = 7010 P = 7010 ÷ 100 = ₹ 70.10

Hence, the difference between ₹ 367.05
and ₹ 296.95 is ₹ 70.10.

30. ₹ 100 = 10000 P and ₹ 65.65 = 6565 P
10000 P – 6565 P = 3435 P = 3435 ÷ 100 = ₹ 34.35
Hence, the difference between ₹ 100 and ₹ 65.65 is ₹ 34.35.

31. ₹ 207.35 = 20735 P and ₹ 197.65 = 19765 P
20735 P – 19765 P = 970 P = 970 ÷ 100 = ₹ 9.70
Hence, the difference between ₹ 207.35
and ₹ 197.65 is ₹ 9.70.

Let Us Do -10D

1. Cost of a toy = ₹ 45.60
Cost of a dress = ₹ 256.18
Total cost of a toy and dress = ₹ 45.60 + ₹ 256.18
= ₹ 301.78
So, ₹ 301.78 did he spend.

2. Chinky got money from her brother = ₹ 126.50
She got money from her sister = ₹ 127.25
Total money got from both = ₹ 126.50 + ₹ 127.25
= ₹ 253.75
So, ₹ 253.75 did she get from both.

3. Cost of a chain = ₹ 278.45
Cost of a ribbon = ₹ 72.35
Cost of bangles = ₹ 62.70
Total cost of all articles = ₹ 278.45 + ₹ 72.35 + ₹ 62.70
= ₹ 413.50
So, ₹ 413.50 did she spend in all.

4. Cost of vegetables = ₹ 27.65
Cost of fruits = ₹ 48.75
Cost of cheese = ₹ 34.60
Total cost of all three items = ₹ 27.65 + ₹ 48.75 + ₹ 34.60
= ₹ 111.00
So, ₹ 111.00 did she pay to the shopkeeper.

5. Cost of a sharpener = ₹ 8.75
Cost of an eraser = ₹ 3.65
Cost of a ball pen = ₹ 6.25
Total cost of all three items = ₹ 8.75 + ₹ 3.65 + ₹ 6.25

= ₹ 18.65

So, ₹ 18.65 did the three items cost altogether.

6. Money with Sunita = ₹ 256.80

Money with Kavita = ₹ 324.40

Kavita have more money than Sunita = ₹ 324.40 – ₹ 256.80

= ₹ 67.60

So, ₹ 67.60 more money does Kavita have than Sunita.

7. To solve this question, we need the difference between ₹ 136.44 and ₹ 79.79

Therefore, ₹ 136.44 – ₹ 79.79 = ₹ 56.65

8. To solve this question, we need the difference between ₹ 251.60 and ₹ 169.78

Therefore, ₹ 251.60 – ₹ 169.78 = ₹ 81.82

9. Cost of a bread = ₹ 23.85

Cost of butter = ₹ 69.75

Cost of eggs = ₹ 23.39

Cost of a cake = ₹ 78.69

Total cost of all four items

= ₹ 23.85 + ₹ 69.75 + ₹ 23.39 + ₹ 78.69

= ₹ 195.68

Saurabh gave a note to the shopkeeper = ₹ 500

Amount returned by the shopkeeper to Saurabh

= ₹ 500 – ₹ 195.68 = ₹ 304.32

So, ₹ 304.32 did he get back.

10. Cost of one post card = 15 paise

Cost of an ordinary envelope = 75 paise

Cost of an envelope for registered letter = ₹ 18.55

Total cost of all three items = 15 P + 75 P + ₹ 18.55

= ₹ 19.45

He gave a rupee note on post office counter = ₹ 50

Amount did he get back = ₹ 50 – ₹ 19.45 = ₹ 30.55

So, ₹ 30.55 did he get back.

11. Cost of grocery items = ₹ 213.90

Cost of vegetables = ₹ 115.50

Expenses of conveyance = ₹ 33.90

Total expenditure = ₹ 213.90 + ₹ 115.50 + ₹ 33.90

= ₹ 363.30

Money with a woman before expenditure = ₹ 453.50

The money left with her after expenditure

= ₹ 453.50 – ₹ 363.30 = ₹ 90.20

So, ₹ 90.20 was left with her.

12. The difference between ₹ 289.30 and ₹ 175.85

= ₹ 289.30 – ₹ 175.85 = ₹ 113.45

On subtracting ₹ 113.45 from ₹ 500.50

= ₹ 500.50 – ₹ 113.45 = ₹ 387.05

13. The sum of ₹ 140.75 and ₹ 65.90 = ₹ 206.65

The sum of 101.40 and ₹ 292.38 = ₹ 101.40 + ₹ 292.38

= ₹ 393.78

Difference of these two sums = ₹ 393.78 – ₹ 206.65

= ₹ 187.13

14. Cost of an umbrella = ₹ 137.70

Cost of rain coat = ₹ 150.60

$\because$ ₹ 150.60 > ₹ 137.70

So, the cost of rain coat is more than umbrella

= ₹ 150.60 – ₹ 137.70 = ₹ 12.90

So, the cost of rain coat is ₹ 12.90 more than an umbrella.

15. Cost of a chair = ₹ 100.40

Cost of a table = ₹ 220.60

Cost of a bench = ₹ 105.60

Total cost of all three items

= ₹ 100.40 + ₹ 220.60 + ₹ 105.60 = ₹ 426.6

Satish give a note to shopkeeper = ₹ 500

Amount returned by the shopkeeper to Satish

= ₹ 500 – ₹ 426.6 = ₹ 73.40

So, ₹ 73.40 did the shopkeeper return to him.

16. Cost of a toy = ₹ 12.08

Cost of a geometry box = ₹ 15.25

Cost of a ball point pen = ₹ 7.10

Total cost of all three items = ₹ 12.08 + ₹ 15.25 + ₹ 7.10

= ₹ 34.43

Rita give a note to shopkeeper = ₹ 50

Amount returned by the shopkeeper to Rita

= ₹ 50 – ₹ 34.43 = ₹ 15.57

Let Us Do-10E

1. ₹ 12 . 36 × 5 = ₹ 61 . 80

2. ₹ 26 . 35 × 6 = ₹ 158 . 10

3. ₹ 79 . 65 × 7 = ₹ 557 . 55

4. ₹ 165 . 35 × 4 = ₹ 661 . 40

5. ₹ 135 . 75 × 3 = ₹ 407 . 25

6. ₹ 165 . 74 × 8 = ₹ 1325 . 92

7. ₹ 89 . 95 × 7 = ₹ 629 . 65

8. ₹ 137 . 67 × 5 = ₹ 688 . 35

9. Cost of one pencil = ₹ 7.05
Cost of 7 pencils = ₹ 7.05 × 7 = ₹ 49.35
So, the cost of 7 pencils is ₹ 49.35.

10. Cost of an envelope = 85 paise
Cost of 8 such envelopes = 85 P × 8 = 680 P = 680 ÷ 100
= ₹ 6.80
So, the cost of 8 such envelopes is ₹ 6.80.

11. Cost of one apple = ₹ 6.25
Cost of 7 apples = ₹ 6.25 × 7 = ₹ 43.75
So, the cost of 7 apples is ₹ 43.75.

12. Cost of 1 crayons box = ₹ 24.45
Cost of 6 such boxes = ₹ 24.45 × 6 = ₹ 146.70
So, the cost of 6 such boxes is ₹ 146.70.

13. Cost of 1 packet of biscuits = ₹ 6.20
Cost of 3 packets of biscuits = ₹ 6.20 × 3 = ₹ 18.60
Cost of 1 packet of mixture = ₹ 4.25
Cost of 5 packets of mixture = ₹ 4.25 × 5 = ₹ 21.25
He spend the money in all = ₹ 18.60 + ₹ 21.25 = ₹ 39.85
So, ₹ 39.85 did he spend in all.

14. Cost of 1 kg sugar = ₹ 17.50
Cost of 6 kg sugar = ₹ 17.50 × 6 = ₹ 105.00
So, the cost of 6 kgs of sugar is ₹ 105.00

15. Cost of 1 metre cloth = ₹ 27.75
Cost of 9 metres of cloth = ₹ 27.75 × 9 = ₹ 249.75
So, the price of 9 metres of cloth is ₹ 249.75.

16. Fee charges per month for each student = ₹ 650
Number of students = 9
Total fees collected = ₹ 650 × 9 = ₹ 5850 or ₹ 5850.00

Measurement of Length

Let Us Do-11A

1. We know that, 1 m = 100 cm
(a) 4 m = 4 × 100 cm = 400 cm
(b) 5 m = 5 × 100 cm = 500 cm
(c) 7 m = 7 × 100 cm = 700 cm
(d) 13 m = 13 × 100 cm = 1300 cm
(e) 13 m 96 cm = 13 × 100 + 96 cm
= 1300 + 96 cm = 1396 cm
(f) 17 m 75 cm = 17 × 100 + 75 cm
= 1700 + 75 cm = 1775 cm
(g) 32 m 65 cm = 32 × 100 + 65 cm
= 3200 + 65 cm = 3265 cm
(h) 55 m 90 cm = 55 × 100 +90 cm
= 5500 + 90 cm = 5590 cm

2. We know that, 100 cm = 1 m
(a) 300 cm = 300 cm ÷ 100 = 3 m
(b) 595 cm = 500 cm + 95 cm = 500 cm ÷ 100 + 95 cm
= 5 m + 95 cm = 5 m 95 cm
(c) 619 cm = 600 cm + 19 cm = 600 cm ÷ 100 + 19 cm
= 6 m + 19 cm = 6 m 19 cm
(d) 705 cm = 700 cm + 5 cm = 700 cm ÷ 100 + 5 cm
= 7 m + 5 cm = 7 m 5 cm
(e) 875 cm = 800 cm + 75 cm = 800 cm ÷ 100 + 75 cm
= 8 m + 75 cm = 8 m 75 cm
(f) 1172 cm = 1100 cm + 72 cm = 1100 cm ÷ 100 + 72 cm
= 11 m + 72 cm = 11 m 72 cm
(g) 1508 cm = 1500 cm + 8 cm = 1500 cm ÷ 100 + 8 cm
= 15 m + 8 cm = 15 m 8 cm
(h) 2798 cm = 2700 cm + 98 cm = 2700 cm ÷ 100 + 98 cm
= 27 m + 98 cm = 27 m 98 cm

3. We know that, 1 km = 1000 m

(a) 5 km = 5 × 1000 m = 5000 m

(b) 7 km = 7 × 1000 m = 7000 m

(c) 11 km = 11 × 1000 m = 11000 m

(d) 19 km = 19 × 1000 m = 19000 m

(e) 25 km 109 m = 25 × 1000 m + 109 m
= 25000 m + 109 m = 25109 m

(f) 115 km 3 m = 115 × 1000 m + 3 m
= 115000 m + 3 m = 115003 m

(g) 73 km 67 m = 73 × 1000 m + 67 m
= 73000 m + 67 m = 73067 m

(h) 215 km 9 m = 215 × 1000 m + 9 m
= 215000 m + 9 m = 215009 m

4. We know that, 1000 m = 1 km

(a) 3000 m = 3000 m ÷ 1000 = 3 km

(b) 2795 m = 2000 m + 795 m = 2000 m ÷ 1000 + 795 m
= 2 km + 795 m = 2 km 795 m

(c) 6019 m = 6000 m + 19 m = 6000 m ÷ 1000 + 19 m
= 6 km + 19 m = 6 km 19 m

(d) 7655 m = 7000 m + 655 m = 7000 m ÷ 1000 + 655 m
= 7 km + 655 m = 7 km 655 m

(e) 9169 m = 9000 m + 169 m = 9000 m ÷ 1000 + 169 m
= 9 km + 169 m = 9 km 169 m

(f) 3965 m = 3000 m + 965 m = 3000 m ÷ 1000 + 965 m
= 3 km + 965 m = 3 km 965 m

(g) 7015 m = 7000 m + 15 m = 7000 m ÷ 1000 + 15 m
= 7 km + 15 m = 7 km 15 m

(h) 7140 m = 7000 m + 140 m = 7000 m ÷ 1000 + 140 m
= 7 km + 140 m = 7 km 140 m

5. (a) 3950 m = 3950 m ÷ 1000 = 3 km + 950 m
= 3 km 950 m

(b) 4009 m = 4009 m ÷ 1000 = 4 km + 9 m
= 4 km 9 m

(c) 6956 m = 6956 m ÷ 1000 = 6 km + 956 m
= 6 km 956 m

(d) 7000 m = 7000 m ÷ 1000 = 7 km

(e) 8960 m = 8960 m ÷ 1000 = 8 km + 960 m
= 8 km 960 m

(f) 9750 m = 9750 m ÷ 1000 = 9 km + 750 m
= 9 km 750 m

(g) 9876 m = 9876 m ÷ 1000 = 9 km + 876 m
= 9 km 876 m

(h) 10000 m = 10000 m ÷ 1000 = 10 km

6. (a) 1 km = 1 × 1000 m = 1000 m

(b) 1 m = 1 × 100 cm = 100 cm

(c) 1 km = 1 × 1000 m = 1000 × 100 cm = 100000 cm

(d) 700 cm = 700 ÷ 100 = 7 m

(e) 796 m = 796 × 100 cm = 79600 cm

(f) 9006 m = 9000 m + 6 cm = 9000 m ÷ 1000 + 6 m
= 9 km + 6 m = 9 km 6 m

Let Us Do-11B

1. 5 m + 7 m = 12 m

2. 2 m 26 cm and 9 m 63 cm

2 m 26 cm = 2 2 6 cm
9 m 63 cm = + 9 6 3 cm
1 1 8 9 cm

1189 cm = 1100 cm + 89 cm = 1100 cm ÷ 100 + 89 cm
= 11 m + 89 cm = 11 m 89 cm

3. 15 m 63 cm and 26 m 49 cm

15 m 63 cm = 1 5 6 3 cm
26 m 49 cm = + 2 6 4 9 cm
4 2 1 2 cm

4212 cm = 4200 cm + 12 cm = 4200 cm ÷ 100 + 12 cm
= 42 m + 12 cm = 42 m 12 cm

4. 45 m 92 cm and 35 m 18 cm

45 m 92 cm = 4 5 9 2 cm
35 m 18 cm = + 3 5 1 8 cm
8 1 1 0 cm

8110 cm = 8100 cm + 10 cm = 8100 cm ÷ 100 + 10 cm
= 81 m + 10 cm = 81 m 10 cm

5. 16 m 53 cm, 12 cm 87 cm and 11 m 45 cm

16 m 53 cm = 1 6 5 3 cm
12 m 87 cm = 1 2 8 7 cm
11 m 45 cm = + 1 1 4 5 cm
4 0 8 5 cm

4085 cm = 4000 cm + 85 cm = 4000 cm ÷ 100 + 85 cm
= 40 m + 85 cm = 40 m 85 cm

6. 28 m 43 cm and 13 m 14 cm ⇒

m	**cm**
2 8	4 3
+ 1 3	1 4
4 1	5 7

∴ Sum = 41 m 57 cm

7. 26 m 5 cm and 68 m 63 cm ⇒

m	**cm**
2 6	0 5
+ 6 8	6 3
9 4	6 8

∴ Sum = 94 m 68 cm

8. 17 m 3 cm and 25 m 2 cm ⇒

m	**cm**
1 7	0 3
+ 2 5	0 2
4 2	0 5

∴ Sum = 42 m 5 cm

9. 46 m 92 cm and 64 m 32 cm ⇒

m	**cm**
4 6	9 2
+ 6 4	3 2
1 1 1	2 4

∴ Sum = 111 m 24 cm

10. 87 m 60 cm, 64 m 60 cm and 64 cm ⇒

m	**cm**
8 7	6 0
6 4	6 0
+	6 4
1 5 2	8 4

∴ Sum = 152 m 84 cm

11. 54 m 32 cm, 78 m 89 cm and 12 m 3 cm ⇒

	m	**cm**
	54	32
	78	89
+	12	03
	145	24

∴ Sum = 145 m 24 cm

12.

	m	**cm**
	18	26
+	56	22
	74	48

13.

	m	**cm**
	39	87
+	75	05
	114	92

14.

	m	**cm**
	85	65
+	13	92
	99	57

15.

	m	**cm**
	48	26
+	35	95
	84	21

16.

	m	**cm**
	25	09
+	78	96
	104	05

17.

	m	**cm**
	34	68
+	86	05
	120	73

18.

	m	**cm**
	28	98
	105	16
+	76	26
	210	40

19.

	m	**cm**
	56	65
	85	28
+	218	06
	359	99

Let Us Do-11C

1. 22 km 838 m, 18 km 89 m

22 km 838 m = 22838 m
18 km 89 m = + 18089 m
40927 m

40927 m = 40000 m + 927 m = 40000 m ÷ 1000 + 927 m
= 40 km + 927 m = 40 km 927 m

2. 39 km 67 m, 20 km 9 m

39 km 67 m = 39067 m
20 km 9 m = + 20009 m
59076 m

59076 m = 59000 m + 76 m = 59000 m ÷ 1000 + 76 m
= 59 km + 76 m = 59 km 76 m

3. 18 km 972 m, 13 km 86 m and 12 km 8 m

18 km 972 m	=	1 8 9 7 2 m
13 km 86 m	=	1 3 0 8 6 m
12 km 8 m	=	+ 1 2 0 0 8 m
		4 4 0 6 6 m

44066 m = 44000 m + 66 m = 44000 m ÷ 1000 + 66 m
= 44 km + 66 m = 44 km 66 m

4. 27 km 800 m, 12 km 80 cm and 8 km 8 m

27 km 800 m	=	2 7 8 0 0 m
12 km 80 m	=	1 2 0 8 0 m
8 km 8 m	=	+ 8 0 0 8 m
		4 7 8 8 8 m

47888 m = 47000 m + 888 m = 47000 m ÷ 1000 + 888 m
= 47 km + 888 m = 47 km 888 m

5. 20 km 728 m, 42 km 109 m and 68 km 413 m

20 km 728 m	=	2 0 7 2 8 m
42 km 109 m	=	4 2 1 0 9 m
68 km 413 m	=	+ 6 8 4 1 3 m
		1 3 1 2 5 0 m

131250 m = 131000 m + 250 m = 131000 m ÷ 1000 + 250 m
= 131 km + 250 m = 131 km 250 m

6. 6 km 185 m and 2 km 38 m ⇒

	km	**m**
	6	1 8 5
+	2	0 3 8
	8	2 2 3

∴ Sum = 8 km 223 m

7. 19 km 536 m and 12 km 870 m ⇒

	km	**m**
	1 9	5 3 6
+	1 2	8 7 0
	3 2	4 0 6

∴ Sum = 32 km 406 m

8. 20 km 5 m and 25 km 88 m $\Rightarrow$

	km	m
	20	005
+	25	088
	45	093

$\therefore$ Sum = 45 km 93 m

9. 42 km 5 m, 37 km 308 m and 11 km 125 m

	km	m
	42	005
	37	308
+	11	125
	90	438

$\therefore$ Sum = 90 km 438 m

10.

	km	m
	28	125
+	16	037
	44	162

11.

	km	m
	32	983
+	48	075
	81	058

12.

	km	m
	66	087
+	22	009
	88	096

13.

	km	m
	25	775
+	38	087
	63	862

14.

	km	m
	17	937
+	28	085
	46	022

15.

	km	m
	24	865
+	65	708
	90	573

16.

	km	m
	115	375
	279	085
+	89	005
	483	465

17.

	km	m
	224	435
	179	007
+	357	125
	760	567

Let Us Do-11D

1. 4 m 56 cm from 8 m 24 cm

8 m 24 cm =	824	cm
4 m 56 cm =	− 456	cm
	368	cm

368 cm = 300 cm + 68 cm = 300 cm ÷ 100 + 68 cm
= 3 m + 68 cm = 3 m 68 cm

2. 8 m 39 cm from 12 m 8 cm

12 m 8 cm =	1 2 0 8	cm
8 m 39 cm =	– 8 3 9	cm
	3 6 9	cm

369 cm = 300 cm + 69 cm = 300 cm ÷ 100 + 69 cm
= 3 m + 69 cm = 3 m 69 cm

3. 11 m 5 cm from 25 m 16 cm

25 m 16 cm =	2 5 1 6	cm
11 m 5 cm =	– 1 1 0 5	cm
	1 4 1 1	cm

1411 cm = 1400 cm + 11 cm = 1400 cm ÷ 100 + 11 cm
= 14 m + 11 cm = 14 m 11 cm

4.

m	**cm**
3 6	9 5
– 1 9	6 5
1 7	3 0

5.

m	**cm**
7 8	6 5
– 3 7	3 7
4 1	2 8

6.

m	**cm**
9 6	0 8
– 5 6	6 9
3 9	3 9

7.

m	**cm**
8 7	0 5
– 3 9	6 9
4 7	3 6

8.

m	**cm**
1 9 6 1	9
– 9 5	6 7
1 0 0	5 2

9.

m	**cm**
3 6 8	0 8
– 1 5 9	9 5
2 0 8	1 3

10.

m	**cm**
1 3 6	2 7
– 7	9 0 8
5	7 1 9

11.

m	**cm**
2 7 9	8 7
– 1 3	5 2 7
1 4	4 6 0

12.

m	**cm**
1	9 3 0
– 1	4 8 5
	4 4 5

13.

m	**cm**
1 5	0 0
– 9	7 2
5	2 8

14.

m	**cm**
3 3	0 8
– 1 9	6 9
1 3	3 9

15.

m	**cm**
4 1	0 0
– 1 9	8 6
2 1	1 4

16. 24 km 650 m from 38 km 970 m

38 km 970 m = 38 × 1000 m + 970 m =	3 8 9 7 0	m
24 km 650 m = 24 × 1000 m + 650 m =	– 2 4 6 5 0	m
	1 4 3 2 0	m

14320 m = 14000 m + 320 m
= 14000 m ÷ 1000 + 320 m
= 14 km + 320 m = 14 km 320 m

17. 36 km 48 m from 75 km 9 m

75 km 9 m = 75 × 1000 m + 9 m = 7 5 0 0 9 m
36 km 48 m = 36 × 1000 m + 48 m = − 3 6 0 4 8 m
3 8 9 6 1 m

38961 m = 38000 m + 961 m = 38000 m ÷ 1000 + 961 m
= 38 km + 961 m = 38 km 961 m

18. 114 km 797 m from 237 km 7 m

237 km 7 m = 237 × 1000 m + 7 m = 2 3 7 0 0 7 m
114 km 797 m = 114 × 1000 m + 797 m = − 1 1 4 7 9 7 m
1 2 2 2 1 0 m

122210 m = 122000 m + 210 m = 122000 m ÷ 1000 + 210 m
= 122 km + 210 m = 122 km 210 m

19. 237 km 635 m from 300 km

300 km = 300 × 1000 m = 3 0 0 0 0 0 m
237 km 635 m = 237 × 1000 m + 635 m = − 2 3 7 6 3 5 m
6 2 3 6 5 m

62365 m = 62000 m + 365 m = 62000 m ÷ 1000 + 365 m
= 62 km + 365 m = 62 km 365 m

20.

	km	m
	33	400
−	18	360
	15	040

21.

	km	m
	74	257
−	36	068
	38	189

22.

	km	m
	201	300
−	169	245
	032	055

23.

	km	m
	60	000
−	26	065
	33	935

24.

	km	m
	237	415
−	169	527
	067	888

25.

	km	m
	128	064
−	68	329
	059	735

26.

	km	m
	129	279
−	56	145
	73	134

27.

	km	m
	375	084
−	196	097
	178	987

28.

	km	m
	58	016
−	48	068
	09	948

29.

	km	m
	448	003
–	336	008
	111	995

30.

	km	m
	105	000
–	97	097
	07	903

31.

	km	m
	632	014
–	418	008
	214	006

32.

	km	m
	200	333
–	84	888
	115	445

33.

	km	m
	333	333
–	222	444
	110	889

34.

	km	m
	555	000
–	444	011
	110	989

35.

	km	m
	777	077
–	396	047
	381	030

Let Us Do-11E

1. Length of nylon cloth = 28 m 25 cm

Length of Terylene cloth = 18 m 65 cm

Total length of both clothes = 28 m 25 cm + 18 m 65 cm = 46 m 90 cm

	m	cm
	28	25
+	18	65
	46	90

So, 46 m 90 cm cloth did he buy altogether.

2. Needed length of cloth for shirt = 2 m 85 cm

Needed length of cloth for trousers = 2 m 35 cm

Total length of cloth does she need = 2 m 85 cm + 2 m 35 cm = 5 m 20 cm

	m	cm
	2	85
+	2	35
	5	20

So, total 5 m 20 cm length of the cloth does she need.

3. Length of one steel rod = 17 m 49 cm

Length of other steel rod = 26 m 68 cm

Total length of both steel rods = 17 m 49 cm + 26 m 68 cm = 44 m 17 cm

	m	cm
	17	49
+	26	68
	44	17

So, their total length is 44 m 17 cm.

4. Length sold of nylon cloth = 172 m 83 cm
Length sold of terylene cloth = 92 m 26 cm
Length sold of popline cloth = 40 m
Total length sold
= 172 m 83 cm + 92 m 26 cm + 40 m
= 305 m 9 cm
So, 305 m 9 cm cloth in total did he sell.

	m	cm
	172	83
	92	26
+	40	00
	305	09

5. Sides of a triangle
= 11 m 6 cm, 51 m 10 cm and 65 m 40 cm
Total length of the three sides
= 11 m 6 cm + 51 m 10 cm + 65 m 40 cm
So, the total length of the three side is 127 m 56 cm

	m	cm
	11	06
	51	10
+	65	40
	127	56

6. The length of three sides of a park
= 235 m 38 cm, 279 m 76 cm and 96 m
Total length of a park
= 235 m 38 cm + 279 m 76 cm + 96 m
= 611 m 14 cm
So, 611 m 14 cm distance covered by the boy in one round of the park.

	m	cm
	235	38
	279	76
+	96	00
	611	14

7. The lengths of three kinds of threads
= 130 m 50 cm, 128 m 98 cm and 29 m 40 cm
Total lengths of these threads
= 130 m 50 cm + 128 m 98 cm + 29 m 40 cm
= 288 m 88 cm
So, the total length of the thread on the reel is 288 m 88 cm.

	m	cm
	130	50
	128	98
+	29	40
	288	88

8. Length of four sides of the field
= 25 m 30 cm, 68 m 9 cm,
47 m 8 cm and 16 m 80 cm
Total length of these four sides
= 25 m 30 cm + 68 m 9 cm
+ 47 m 8 cm + 16 m 80 cm
= 157 m 27 cm
So, 157 m 27 cm distance does he run in one round.

	m	cm
	25	30
	68	09
	47	08
+	16	80
	157	27

9. The height of a tree before broken = 12 m 20 cm

The height of a tree after broken = 8 m 56 cm

Broken height of a tree = 12 m 20 cm – 8 m 56 cm

= 3 m 64 cm

So, 3 m 64 cm is broken by the wind.

	m	cm
	12	20
–	8	56
	3	64

10. Total length of electric wire in a roll = 100 m

Electric wire used = 48 m 40 cm

Remaining wire = 100 m – 48 m 40 cm

= 51 m 60 cm

So, 51 m 60 cm wire is left on the roll.

	m	cm
	100	00
–	48	40
	51	60

11. Length of one building 35 m 25 cm

Length of another building = 18 m 75 cm

Difference of the length of both buildings

= 35 m 25 cm – 18 m 75 cm = 16 m 50 cm

So, 16 m 50 cm length of a building is much longer than another building.

	m	cm
	35	25
–	18	75
	16	50

12. Total length of a pole = 8 m 75 cm

Pole remains outside the water = 4 m 88 cm

Pole inside the water

= 8 m 75 cm – 4 m 88 cm = 3 m 87 cm

So, the depth of the pond is 3 m 87 cm.

	m	cm
	8	75
–	4	88
	3	87

13. Total length of a cloth = 90 m

Cloth sold to one customer = 19 m 35 cm

Cloth sold to another customer

= 18 m 80 cm

Total cloth sold to both customers

= 19 m 35 cm + 18 m 80 cm

= 38 m 15 cm

Remaining length of a cloth = 90 m – 38 m 15 cm

= 51 m 85 cm

So, 51 m 85 cm cloth is left with him.

	m	cm
	19	35
+	18	80
	38	15
	90	00
–	38	15
	51	85

14. Total length of a plastic pipe = 23 m
The length of two pieces are cut off
= 10 m 37 cm + 8 m 8 cm
= 18 m 45 cm
Remaining length of a plastic pipe
= 23 m – 18 m 45 cm
= 4 m 55 cm
So, 4 m 55 cm roll of plastic pipe is left.

m	cm
10	37
+ 8	08
18	45
23	00
– 18	45
4	55

15. The height of Sonu = 97 cm
The height of his father = 1 m 56 cm
Difference between both heights
= 1 m 56 cm – 97 cm = 59 cm
So, 59 cm is the father taller than the son.

m	cm
1	56
–	97
	59

16. Rajinder jumped = 1 m 20 cm
Ravinder jumped = 95 cm
Difference between both jumped
= 1 m 20 cm – 95 cm = 25 cm
So, Rajender jumped higher by 25 cm.

m	cm
1	20
–	95
	25

17. Total length of a plastic pipe = 53 m
The length of two pieces are cut off
= 10 m 8 cm + 19 m 70 cm
= 29 m 78 cm
Remaining length of a plastic pipe
= 53 m – 29 m 78 cm
= 23 m 22 cm
So, 23 m 22 cm roll of plastic pipe is left.

m	cm
10	08
+ 19	70
29	78
53	00
– 29	78
23	22

18. Total length of a piece of cloth = 16 m
Cloth gave for his shirt = 2 m 35 cm
Cloth gave for his pants = 4 m 65 cm
Cloth gave for his coat = 2 m 45 cm
Total cloth gave to the tailor
= 2 m 35 cm + 4 m 65 cm + 2 m 45 cm
= 9 m 45 cm
Cloth is left with him
= 16 m – 9 m 45 cm = 6 m 55 cm
So, 6 m 55 cm cloth is left with him.

m	cm
2	35
4	65
+ 2	45
9	45
16	00
– 9	45
6	55

Measurement of Weight

Let Us Do -12A

We know that, 1 kg = 1000 g or 1000 g = 1 kg

1. 2 kg = 2 × 1000 g = 2000 g

2. 5 kg = 5 × 1000 g = 5000 g

3. 6 kg = 6 × 1000 g = 6000 g

4. 11 kg = 11 × 1000 g = 11000 g

5. 23 kg = 23 × 1000 g = 23000 g

6. 35 kg = 35 × 1000 g = 35000 g

7. 5 kg 160 g = 5 × 1000 g + 160 g = 5000 g + 160 g = 5160 g

8. 8 kg 6 g = 8 × 1000 g + 6 g = 8000 g + 6 g = 8006 g

9. 11 kg 111 g = 11 × 1000 g + 111 g
= 11000 g + 111 g = 11111 g

10. 19 kg 120 g = 19 × 1000 g + 120 g
= 19000 g + 120 g = 19120 g

11. 17 kg 20 g = 17 × 1000 g + 20 g
= 17000 g + 20 g = 17020 g

12. 35 kg 185 g = 35 × 1000 g + 185 g
= 35000 g + 185 g = 35185 g

13. 9 kg 100 g = 9 × 1000 g + 100 g = 9000 g + 100 g = 9100 g

14. 15 kg 55 g = 15 × 1000 g + 55 g
= 15000 g + 55 g = 15055 g

15. 65 kg 750 g = 65 × 1000 g + 750 g
= 65000 g + 750 g = 65750 g

16. 4000 g = 4000 g ÷ 1000 g = 4 kg

17. 6000 g = 6000 g ÷ 1000 g = 6 kg

18. 8008 g = 8000 g + 8 g = 8000 g ÷ 1000 g + 8 g
= 8 kg + 8 g = 8 kg 8 g

19. 13000 g = 13000 g ÷ 1000 g = 13 kg

20. 3862 g = 3000 g + 862 g = 3000 g ÷ 1000 g + 862 g
= 3 kg + 862 g = 3 kg 862 g

21. 5005 g = 5000 g + 5 g = 5000 g ÷ 1000 g + 5 g
= 5 kg + 5 g = 5 kg 5 g

22. 12195 g = 12000 g + 195 g = 12000 g ÷ 1000 g + 195 g
= 12 kg + 195 g = 12 kg 195 g

23. 17017 g = 17000 g + 17 g = 17000 g ÷ 1000 g + 17 g
= 17 kg + 17 g = 17 kg 17 g

24. 25165 g = 25000 g + 165 g = 25000 g ÷ 1000 g + 165 g
= 25 kg + 165 g = 25 kg 165 g

25. 31190 g = 31000 g + 190 g = 31000 g ÷ 1000 g + 190 g
= 31 kg + 190 g = 31 kg 190 g

26. 50365 g = 50000 g + 365 g = 50000 g ÷ 1000 g + 365 g
= 50 kg + 365 g = 50 kg 365 g

27. 41985 g = 41000 g + 985 g = 41000 g ÷ 1000 g + 985 g
= 41 kg + 985 g = 41 kg 985 g

28. 3 kg 50 g = 3 × 1000 g + 50 g = 3000 g + 50 g = 3050 g
So, 3 kg 50 g = 3050 g

29. $\frac{1}{2}$ kg = $\frac{1 \times 1000}{2}$ g = $\frac{1000}{2}$ = 500 g
So, $\frac{1}{2}$ kg = 500 g

30. 7695 g = 7000 g + 695 g = 7000 g ÷ 1000 g + 695 g
= 7 kg + 695 g = 7 kg 695 g
So, 7695 g = 7 kg 695 g

31. 1500 g = 1000 g + 500 g = 1000 g ÷ 1000 g + 500 g
= 1 kg + 500 g = 1 kg 500 g
So, 1500 g = 1 kg 500 g

Let Us Do-12B

1. 2 kg 370 g = 2 × 1000 g + 370 g = 2000 g + 370 g = 2370 g
5 kg 275 g = 5 × 1000 g + 275 g = 5000 g + 275 g = 5275 g
Now, we add 2370 g + 5275 g = 7645 g
We shall convert 7645 g into kilograms and grams.
7645 g = 7000 g + 645 g = 7000 g ÷ 1000 g + 645 g
= 7 kg + 645 g = 7 kg 645 g
Hence, 2 kg 370 g + 5 kg 275 g = 7 kg 645 g.

2. 7 kg 5 g = 7 × 1000 g + 5 g = 7000 g + 5 g = 7005 g
39 kg 875 g = 39 × 1000 g + 875 g
= 39000 g + 875 g = 39875 g
Now, we add 7005 g + 39875 g = 46880 g

We shall convert 46880 g into kilograms and grams.

46880 g = 46000 g + 880 g = 46000 g ÷ 1000 g + 880 g

= 46 kg + 880 g = 46 kg 880 g

Hence, 7 kg 5 g + 39 kg 875 g = 46 kg 880 g.

3. 12 kg 468 g = 12 × 1000 g + 468 g

= 12000 g + 468 g = 12468 g

12 kg 156 g = 12 × 1000 g + 156 g

= 12000 g + 156 g = 12156 g

Now, we add 12468 g + 12156 g = 24624 g

We shall convert 24624 g into kilograms and grams.

24624 g = 24000 g + 624 g = 24000 g ÷ 1000 g + 624 g

= 24 kg + 624 g = 24 kg 624 g

Hence, 12 kg 468 g + 12 kg 156 g = 24 kg 624 g.

4. 35 kg 10 g = 35 × 1000 g + 10 g

= 35000 g + 10 g = 35010 g

Now, we add 35010 g + 658 g = 35668 g

We shall convert 35668 g into kilograms and grams.

35668 g = 35000 g + 668 g = 35000 g ÷ 1000 g + 668 g

= 35 kg + 668 g = 35 kg 668 g

Hence, 35 kg 10 g + 658 g = 35 kg 668 g.

5. 25 kg 170 g = 25 × 1000 g + 170 g

= 25000 g + 170 g = 25170 g

25 kg 5 g = 25 × 1000 g + 5 g = 25000 g + 5 g = 25005 g

Now, we add 25170 g + 25005 g = 50175 g

We shall convert 50175 g into kilograms and grams.

50175 g = 50000 g + 175 g = 50000 g ÷ 1000 g + 175 g

= 50 kg + 175 g = 50 kg 175 g

Hence, 25 kg 170 g + 25 kg 5 g = 50 kg 175 g.

6. 75 kg 6 g = 75 × 1000 g + 6 g = 75000 g + 6 g = 75006 g

10 kg 29 g = 10 × 1000 g + 29 g

= 10000 g + 29 g = 10029 g

Now, we add 75006 g + 10029 g = 85035 g

We shall convert 85035 g into kilograms and grams.

85035 g = 85000 g + 35 g = 85000 g ÷ 1000 g + 35 g

= 85 kg + 35 g = 85 kg 35 g

Hence, 75 kg 6 g + 10 kg 29 g = 85 kg 35 g.

7.

	kg	g
	6	435
+	9	848
	16	283

8.

	kg	g
	22	326
+	9	778
	32	104

9.

	kg	g
	124	040
+	42	005
	166	045

10.

	kg	g
	88	990
+	35	995
	124	985

11.

	kg	g
	5	150
	7	032
+	25	025
	37	207

12.

	kg	g
	37	435
	65	010
+	00	566
	103	011

13.

	kg	g
	8	123
	7	302
+	2	312
	17	737

14.

	kg	g
	35	338
	57	056
+	89	090
	181	484

15.

	kg	g
	69	345
+	72	876
	142	221

16.

	kg	g
	503	370
+	367	980
	871	350

17.

	kg	g
	43	666
+	96	778
	140	444

18.

	kg	g
	18	456
+	24	949
	43	405

19.

	kg	g
	70	995
+	80	005
	151	000

20.

	kg	g
	84	985
+	26	365
	111	350

21.

	kg	g
	78	960
+	59	075
	138	035

22.

	kg	g
	34	894
+	49	766
	84	660

23.

	kg	g
	36	674
+	79	897
	116	571

24.

	kg	g
	20	765
	10	675
+	30	085
	61	525

25.

	kg	g
	268	760
	142	650
+	79	480
	490	890

26.

	kg	g
	430	090
	68	160
+	7	009
	505	259

27. Weight of a box of apple = 19 kg 325 g
Weight of a box of grapes = 11 kg 850 g
Total weight of both boxes
= 19 kg 325 g + 11 kg 850 g
= 31 kg 175 g

kg	g
19	325
+ 11	850
31	175

So, their total weight is 31 kg 175 g.

28. Weight of old newspapers = 13 kg 237 g
Weight of old magazines = 2 kg 247 g
Total weight of both articles
= 13 kg 237 g + 2 kg 247 g
= 15 kg 484 g

kg	g
13	237
+ 2	247
15	484

So, 15 kg 484 g is total weight of the articles sold by him.

29. The weight of two bags = 97 kg 50 g and 85 kg 670 g
Total weight of these two bags
= 97 kg 50 g + 85 kg 670 g
= 182 kg 720 g

kg	g
97	050
+ 85	670
182	720

So, 182 kg 720 g is the total weight of the two bags.

30. Weight of three packets of cakes
= 3 kg 27 g, 19 kg 570 g and 2 kg 725 g
Total weight of these three packets of cakes
= 3 kg 27 g + 19 kg 570 g + 2 kg 725 g
= 25 kg 322 g

kg	g
3	027
19	570
+ 2	725
25	322

So, the total weight of all cakes is 25 kg 322 g.

31. Weight of an empty bucket = 1 kg 685 g
Weight of water in it = 12 kg 635 kg
Total weight of bucket full of water
= 1 kg 685 g + 12 kg 635 kg
= 14 kg 320 g

kg	g
1	685
+ 12	635
14	320

So, the weight of bucket full of water is 14 kg 320 g.

32. Ramesh bough sugar = 4 kg 500 g
He bought rice = 12 kg
He bought wheat = 15 kg 750 g
Total weight
= 4 kg 500 g + 12 kg + 15 kg 750 g
= 32 kg 250 g

kg	g
4	500
12	000
+ 15	750
32	250

So, 32 kg 250 g is the total weight he bough together.

Let Us Do -12C

1. 6 kg 435 g from 9 kg 848 g

6 kg 435 g = 6 × 1000 g + 435 g = 6000 g + 435 g = 6435 g

9 kg 848 g = 9 × 1000 g + 848 g = 9000 g + 848 g = 9848 g

Now, we subtract 9848 g – 6435 g = 3413 g

We shall convert 3413 g into kilograms and grams.

3413 g = 3000 g + 413 g = 3000 g ÷ 1000 g + 413 g

= 3 kg + 413 g = 3 kg 413 g

Hence, 9 kg 848 g – 6 kg 435 g = 3 kg 413 g.

2. 12 kg 326 g from 19 kg 778 g

12 kg 326 g = 12 × 1000 g + 326 g

= 12000 g + 326 g = 12326 g

19 kg 778 g = 19 × 1000 g + 778 g

= 19000 g + 778 g = 19778 g

Now, we subtract 19778 g – 12326 g = 7452 g

We shall convert 7452 g into kilograms and grams.

7452 g = 7000 g + 452 g = 7000 g ÷ 1000 g + 452 g

= 7 kg + 452 g = 7 kg 452 g

Hence, 19 kg 778 g – 12 kg 326 g = 7 kg 452 g.

3. 24 kg 40 g from 42 kg

24 kg 40 g = 24 × 1000 g + 40 g = 24000 g + 40 g = 24040 g

42 kg = 42 × 1000 g = 42000 g

Now, we subtract 42000 g – 24040 g = 17960 g

We shall convert 17960 g into kilograms and grams.

17960 g = 17000 g + 960 g = 17000 g ÷ 1000 g + 960 g

= 17 kg + 960 g = 17 kg 960 g

Hence, 42 kg – 24 kg 40 g = 17 kg 960 g.

4. 28 kg 990 g from 35 kg 995 g

28 kg 990 g = 28 × 1000 g + 990 g

= 28000 g + 990 g = 28990 g

35 kg 995 g = 35 × 1000 g + 995 g

= 35000 g + 995 g = 35995 g

Now, we subtract 35995 g – 28990 g = 7005 g

We shall convert 7005 g into kilograms and grams.

7005 g = 7000 g + 5 g = 7000 g ÷ 1000 g + 5 g

= 7 kg + 5 g = 7 kg 5 g

Hence, 35 kg 995 g – 28 kg 990 g = 7 kg 5 g.

5. 24 kg 895 g from 35 kg 3 g

24 kg 895 g = 24 × 1000 g + 895 g

= 24000 g + 895 g = 24895 g

35 kg 3 g = 35 × 1000 g + 3 g = 35000 g + 3 g = 35003 g

Now, we subtract 35003 g – 24895 g = 10108 g

We shall convert 10108 g into kilograms and grams.

10108 g = 10000 g + 108 g = 10000 g ÷ 1000 g + 108 g

= 10 kg + 108 g = 10 kg 108 g

Hence, 35 kg 3 g – 24 kg 895 g = 10 g 108 g.

6. 72 kg 372 g from 85 kg 485 g

72 kg 372 g = 72 × 1000 g + 372 g

= 72000 g + 372 g = 72372 g

85 kg 485 g = 85 × 1000 g + 485 g

= 85000 g + 485 g = 85485 g

Now, we subtract 85485 g – 72372 g = 13113 g

We shall convert 13113 g into kilograms and grams.

13113 g = 13000 g + 113 g = 13000 g ÷ 1000 g + 113 g

= 13 kg + 113 g = 13 kg 113 g

Hence, 85 kg 485 g – 72 kg 372 g = 13 kg 113 g.

7. 111 kg 205 g from 118 kg 207 g

111 kg 205 g = 111 × 1000 g + 205 g

= 111000 g + 205 g = 111205 g

118 kg 207 g = 118 × 1000 g + 207 g

= 118000 g + 207 g = 118207 g

Now, we subtract 118207 g – 111205 g = 7002 g

We shall convert 7002 g into kilograms and grams.

7002 g = 7000 g + 2 g = 7000 g ÷ 1000 g + 2 g

= 7 kg + 2 g = 7 kg 2 g

Hence, 118 kg 207 g – 111 kg 205 g = 7 kg 2 g.

8. 237 kg 5 g from 279 kg 20 g

237 kg 5 g = 237 × 1000 g + 5 g

= 237000 g + 5 g = 237005 g

279 kg 20 g = 279 × 1000 g + 20 g

= 279000 g + 20 g = 279020 g

Now, we subtract 279020 g – 237005 g = 42015 g
We shall convert 42015 g into kilograms and grams.

42015 g = 42000 g + 15 g = 42000 g ÷ 1000 g + 15 g
= 42 kg + 15 g = 42 kg 15 g

Hence, 279 kg 20 g – 237 kg 5 g = 42 kg 15 g.

9.

	kg	g
	35	000
–	28	395
	6	605

10.

	kg	g
	24	108
–	12	095
	12	013

11.

	kg	g
	3	980
–	0	675
	3	305

12.

	kg	g
	45	005
–	40	780
	4	225

13.

	kg	g
	303	009
–	119	825
	183	184

14.

	kg	g
	19	435
–	13	126
	6	309

15.

	kg	g
	95	054
–	74	135
	20	919

16.

	kg	g
	431	005
–	301	125
	129	880

17.

	kg	g
	289	154
–	189	295
	99	859

18.

	kg	g
	96	078
–	08	067
	88	011

19.

	kg	g
	109	004
–	32	050
	76	954

20.

	kg	g
	300	009
–	137	025
	162	984

21.

	kg	g
	364	025
–	281	135
	82	890

22.

	kg	g
	65	167
–	37	489
	27	678

23.

	kg	g
	70	235
–	24	325
	45	910

24.

	kg	g
	125	000
–	97	165
	27	835

25.

	kg	g
	137	005
–	56	125
	80	880

26.

	kg	g
	279	150
–	165	379
	113	771

27.

	kg	g
	70	348
–	58	235
	12	113

28.

	kg	g
	304	050
–	107	375
	196	675

29. The weighs of a bucket full of water = 15 kg 320 g
The weight of empty bucket = 2 kg 685 g
Weight of water in the bucket
= 15 kg 320 g – 2 kg 685 g = 12 kg 635 g
The weight of water in the bucket is 12 kg 635 g.

	kg	g
	15	320
–	2	685
	12	635

30. Saurav weighs = 26 kg 200 g
His sister Neha weighs = 36 kg 5 g
$\because$ 36 kg 5 g > 26 kg 200 g
$\therefore$ Neha weighs more than Saurav
= 36 kg 5 g – 26 kg 200 g
= 9 kg 805 g
So, Neha weights 9 kg 805 more than his brother.

	kg	g
	36	005
–	26	200
	9	805

31. A bag containing the potatoes
= 17 kg 450 g
In which, potatoes were sold
= 13 kg 80 g
Potatoes left = 17 kg 450 g – 13 kg 80 g
= 4 kg 370 g
So, the weight of the potatoes left in the bag is 4 kg 370 g.

	kg	g
	17	450
–	13	080
	4	370

32. A tin contained oil = 12 kg 173 g
The shopkeeper sold out = 6 kg 984 g
Oil was left in the tin
= 12 kg 173 g – 6 kg 984 g = 5 kg 189 g
So, 5 kg 189 g oil was left in the tin.

	kg	g
	12	173
–	6	984
	5	189

33. Total weight of Sita and Neeta
= 97 kg 35 g
Sita weighs = 42 kg 965 g
Neeta weighs = 97 kg 35 g – 42 kg 965 g
= 54 kg 70 g
So, Neeta weighs is 54 kg 70 g.

	kg	g
	97	035
–	42	965
	54	070

Measurement of Capacity

Let Us Do-13A

We know that 1 *l* = 1000 m*l* or 1000 *l* = 1 *l*

1. 8 *l* = 8 × 1000 m*l* = 8000 m*l*

2. 17 *l* = 17 × 1000 m*l* = 17000 m*l*

3. 23 *l* = 23 × 1000 m*l* = 23000 m*l*

4. 6 *l* 650 m*l* = 6 × 1000 m*l* + 650 m*l*
= 6000 m*l* + 650 m*l* = 6650 m*l*

5. 9 *l* 800 m*l* = 9 × 1000 m*l* + 800 m*l*
= 9000 m*l* + 800 m*l* = 9800 m*l*

6. 9 *l* 250 m*l* = 9 × 1000 m*l* + 250 m*l*
= 9000 m*l* + 250 m*l* = 9250 m*l*

7. 11 *l* 80 m*l* = 11 × 1000 m*l* + 80 m*l*
= 11000 m*l* + 80 m*l* = 11080 m*l*

8. 13 *l* 65 m*l* = 13 × 1000 m*l* + 65 m*l*
= 13000 m*l* + 65 m*l* = 13065 m*l*

9. 52 *l* 5 m*l* = 52 × 1000 m*l* + 5 m*l*
= 52000 m*l* + 5 m*l* = 52005 m*l*

10. 20 *l* 980 m*l* = 20 × 1000 m*l* + 980 m*l*
= 20000 m*l* + 980 m*l* = 20980 m*l*

11. 16 *l* 125 m*l* = 16 × 1000 m*l* + 125 m*l*
= 16000 m*l* + 125 m*l* = 16125 m*l*

12. 25 *l* 25 m*l* = 25 × 1000 m*l* + 25 m*l*
= 2500 m*l* + 25 m*l* = 25025 m*l*

13. 3000 m*l* = 3000 m*l* ÷ 1000 = 3 *l*

14. 4500 m*l* = 4000 m*l* ÷ 1000 + 500 m*l*
= 4 *l* + 500 m*l* = 4 *l* 500 m*l*

15. 6125 m*l* = 6000 m*l* ÷ 1000 + 125 m*l*
= 6 *l* + 125 m*l* = 6 *l* 125 m*l*

16. 8372 m*l* = 8000 m*l* ÷ 1000 + 372 m*l*
= 8 *l* + 372 m*l* = 8 *l* 372 m*l*

17. 2205 m*l* = 2000 m*l* ÷ 1000 + 205 m*l*
= 2 *l* + 205 m*l* = 2 *l* 205 m*l*

18. 2085 m*l* = 2000 m*l* ÷ 1000 + 85 m*l*
= 2 *l* + 85 m*l* = 2 *l* 85 m*l*

19. 6046 m*l* = 6000 m*l* ÷ 1000 + 46 m*l*
= 6 *l* + 46 m*l* = 6 *l* 46 m*l*

20. 7031 m*l* = 7000 m*l* ÷ 1000 + 31 m*l*
= 7 *l* + 31 m*l* = 7 *l* 31 m*l*

21. 4228 m*l* = 4000 m*l* ÷ 1000 + 228 m*l*
= 4 *l* + 228 m*l* = 4 *l* 228 m*l*

22. 6008 m*l* = 6000 m*l* ÷ 1000 + 8 m*l*
= 6 *l* + 8 m*l* = 6 *l* 8 m*l*

23. 4120 m*l* = 4000 m*l* ÷ 1000 + 120 m*l*
= 4 *l* + 120 m*l* = 4 *l* 120 m*l*

24. 2985 m*l* = 2000 m*l* ÷ 1000 + 985 m*l*
= 2 *l* + 985 m*l* = 2 *l* 985 m*l*

25. (a) 6 *l* 5 m*l* = 6 × 1000 m*l* + 5 m*l* = 6000 m*l* + 5 m*l*
= 6005 m*l*. So, 6 *l* 5 m*l* = 6005 m*l*.

(b) 6 *l* = 6 × 1000 m*l* = 6000 m*l*. So, 6000 m*l* = 6 *l*.

(c) 3005 m*l* = 3000 m*l* ÷ 1000 + 5 m*l* = 3 *l* + 5 m*l* = 3 *l* 5 m*l*

(d) 3406 m*l* = 3000 m*l* ÷ 1000 + 406 m*l* = 3 *l* + 406 m*l*
= 3 *l* 406 m*l*. So, 3 *l* 406 m*l* = 3406 m*l*

(e) 16419 m*l* = 16000 m*l* ÷ 1000 + 419 m*l*
= 16 *l* + 419 m*l* = 16 *l* 419 m*l*
So, 16 *l* 419 m*l* = 16419 m*l*

(f) 22 *l* 22 m*l* = 22 × 1000 m*l* + 22 m*l*
= 22000 m*l* + 22 m*l* = 22022 m*l*
So, 22 *l* 22 m*l* = 22022 m*l*

Let Us Do-13B

1. 4 litres 6 m*l* and 9 litres 387 m*l*

4 *l* 6 m*l* = 4 × 1000 m*l* + 6 m*l* = 4000 m*l* + 6 m*l* = 4006 m*l*

9 *l* 387 m*l* = 9 × 1000 m*l* + 387 m*l*
= 9000 m*l* + 387 m*l* = 9387 m*l*

Now, we add 4006 m*l* + 9387 m*l* = 13393 m*l*

13393 m*l* = 13000 m*l* ÷ 1000 + 393 m*l*
= 13 *l* + 393 m*l* = 13 *l* 393 m*l*

Hence, 4 litres 6 m*l* + 9 litres 387 m*l* = 13 *l* 393 m*l*.

2. 68 litres 89 m*l* and 10 litres 5 m*l*

68 *l* 89 m*l* = 68 × 1000 m*l* + 89 m*l*

= 68000 m*l* + 89 m*l* = 68089 m*l*

10 *l* 5 m*l* = 10 × 1000 m*l* + 5 m*l*

= 10000 m*l* + 5 m*l* = 10005 m*l*

Now, we add 68089 m*l* + 10005 m*l* = 78094 m*l*

78094 m*l* = 78000 m*l* ÷ 1000 + 94 m*l* = 78 *l* + 94 m*l*

= 78 *l* 94 m*l*

Hence, 68 litres 89 m*l* + 10 litres 5 m*l* = 78 *l* 94 m*l*.

3. 28 litres 101 m*l* and 36 litres 569 m*l*

28 *l* 101 m*l* = 28 × 1000 m*l* + 101 m*l*

= 28000 m*l* + 101 m*l* = 28101 m*l*

36 *l* 569 m*l* = 36 × 1000 m*l* + 569 m*l*

= 36000 m*l* + 569 m*l* = 36569 m*l*

Now, we add 28101 m*l* + 36569 m*l* = 64670 m*l*

64670 m*l* = 64000 m*l* ÷ 1000 + 670 m*l*

= 64 *l* + 670 m*l* = 64 *l* 670 m*l*

Hence, 28 litres 101 m*l* + 36 litres 569 m*l* = 64 *l* 670 m*l*.

4. 40 litres 10 m*l* and 610 litres 909 m*l*

40 *l* 10 m*l* = 40 × 1000 m*l* + 10 m*l*

= 40000 m*l* + 10 m*l* = 40010 m*l*

610 *l* 909 m*l* = 610 × 1000 m*l* + 909 m*l*

= 610000 m*l* + 909 m*l* = 610909 m*l*

Now, we add 40010 m*l* + 610909 m*l* = 650919 m*l*

650919 m*l* = 650000 m*l* ÷ 1000 + 919 m*l*

= 650 *l* + 919 m*l* = 650 *l* 919 m*l*

Hence, 40 litres 10 m*l* + 610 litres 909 m*l* = 650 *l* 919 m*l*.

5. 37 litres 205 m*l* and 89 litres 710 m*l*

37 *l* 205 m*l* = 37 × 1000 m*l* + 205 m*l*

= 37000 m*l* + 205 m*l* = 37205 m*l*

89 *l* 710 m*l* = 89 × 1000 m*l* + 710 m*l*

= 89000 m*l* + 710 m*l* = 89710 m*l*

Now, we add 37205 m*l* + 89710 m*l* = 126915 m*l*

126915 m*l* = 126000 m*l* ÷ 1000 + 915 m*l*

= 126 *l* + 915 m*l* = 126 *l* 915 m*l*

Hence, 37 litres 205 m*l* + 88 litres 710 m*l* = 126 *l* 915 m*l*.

6. 124 litres 5 m*l* and 68 litres 62 m*l*

124 *l* 5 m*l* = 124 × 1000 m*l* + 5 m*l*

= 124000 m*l* + 5 m*l* = 124005 m*l*

68 *l* 62 m*l* = 68 × 1000 m*l* + 62 m*l*

= 68000 m*l* + 62 m*l* = 68062 m*l*

Now, we add 124005 m*l* + 68062 m*l* = 192067 m*l*

192067 m*l* = 192000 m*l* ÷ 1000 + 67 m*l*

= 192 *l* + 67 m*l* = 192 *l* 67 m*l*

Hence, 124 litres 5 m*l* + 68 litres 62 m*l* = 192 *l* 67 m*l*.

7.

	l	m*l*
	46	009
+	38	056
	84	065

8.

	l	m*l*
	32	848
+	54	765
	87	613

9.

	l	m*l*
	84	492
+	228	305
	312	797

10.

	l	m*l*
	76	510
+	389	286
	465	796

11.

	l	m*l*
	28	502
+	226	729
	255	231

12.

	l	m*l*
	44	602
+	208	400
	253	002

13.

	l	m*l*
	4	685
	19	095
+	16	107
	39	887

14.

	l	m*l*
	23	108
	47	006
+	18	075
	88	189

15.

	l	m*l*
	425	320
+	621	509
	1046	829

16.

	l	m*l*
	399	909
+	111	101
	511	010

17.

	l	m*l*
	42	325
	69	478
+	2	726
	114	529

18.

	l	m*l*
	46	326
	129	492
+	0	621
	176	439

19.

	l	m*l*
	15	150
	75	025
	45	726
+	35	108
	171	009

20.

	l	m*l*
	101	160
	50	750
	15	025
+	85	006
	251	941

Let Us Do-13C

1. 2 litres 348 m*l* from 5 litres 163 m*l*

2 *l* 348 m*l* = 2 × 1000 m*l* + 348 m*l*

= 2000 m*l* + 348 m*l* = 2348 m*l*

5 *l* 163 m*l* = 5 × 1000 m*l* + 163 m*l*

= 5000 m*l* + 163 m*l* = 5163 m*l*

Now, we subtract 5163 m*l* – 2348 m*l* = 2815 m*l*

We shall convert 2815 m*l* into millilitres and litres.

2815 m*l* = 2000 m*l* + 815 m*l* = 2000 m*l* ÷ 1000 + 815 m*l*

= 2 *l* + 815 m*l* = 2 *l* 815 m*l*

Hence, 5 *l* 163 m*l* – 2 *l* 348 m*l* = 2 *l* 815 m*l*.

2. 6 litres 642 m*l* from 8 litres 61 m*l*

6 *l* 642 m*l* = 6 × 1000 m*l* + 642 m*l*

= 6000 m*l* + 642 m*l* = 6642 m*l*

8 *l* 61 m*l* = 8 × 1000 m*l* + 61 m*l*

= 8000 m*l* + 61 m*l* = 8061 m*l*

Now, we subtract 8061 m*l* – 6642 m*l* = 1419 m*l*

We shall convert 1419 m*l* into millilitres and litres.

1419 m*l* = 1000 m*l* + 419 m*l* = 1000 m*l* ÷ 1000 + 419 m*l*

= 1 *l* + 419 m*l* = 1 *l* 419 m*l*

Hence, 8 *l* 61 m*l* – 6 *l* 642 m*l* = 1 *l* 419 m*l*.

3. 4 litres 399 m*l* from 8 litres 5 m*l*

4 *l* 399 m*l* = 4 × 1000 m*l* + 399 m*l*

= 4000 m*l* + 399 m*l* = 4399 m*l*

8 *l* 5 m*l* = 8 × 1000 m*l* + 5 m*l* = 8000 m*l* + 5 m*l* = 8005 m*l*

Now, we subtract 8005 m*l* – 4399 m*l* = 3606 m*l*

We shall convert 3606 m*l* into millilitres and litres.

3606 m*l* = 3000 m*l* + 606 m*l* = 3000 m*l* ÷ 1000 + 606 m*l*

= 3 *l* + 606 m*l* = 3 *l* 606 m*l*

Hence, 8 *l* 5 m*l* – 4 *l* 399 m*l* = 3 *l* 606 m*l*.

4. 7 litres 48 m*l* from 8 litres 372 m*l*

7 *l* 48 m*l* = 7 × 1000 m*l* + 48 m*l*

= 7000 m*l* + 48 m*l* = 7048 m*l*

8 *l* 372 m*l* = 8 × 1000 m*l* + 372 m*l*

= 8000 m*l* + 372 m*l* = 8372 m*l*

Now, we subtract 8372 m*l* – 7048 m*l* = 1324 m*l*

We shall convert 1324 m*l* into millilitres and litres.

1324 m*l* = 1000 m*l* + 324 m*l* = 1000 m*l* ÷ 1000 + 324 m*l*

= 1 *l* + 324 m*l* = 1 *l* 324 m*l*

Hence, 8 *l* 372 m*l* – 7 *l* 48 m*l* = 1 *l* 324 m*l*.

5. 6 litres 124 m*l* from 9 litres 56 m*l*

6 *l* 124 m*l* = 6 × 1000 m*l* + 124 m*l*

= 6000 m*l* + 124 m*l* = 6124 m*l*

9 *l* 56 m*l* = 9 × 1000 m*l* + 56 m*l*

= 9000 m*l* + 56 m*l* = 9056 m*l*

Now, we subtract 9056 m*l* – 6124 m*l* = 2932 m*l*

We shall convert 2932 m*l* into millilitres and litres.

2932 m*l* = 2000 m*l* + 932 m*l* = 2000 m*l* ÷ 1000 + 932 m*l*

= 2 *l* + 932 m*l* = 2 *l* 932 m*l*

Hence, 9 *l* 56 m*l* – 6 *l* 124 m*l* = 2 *l* 932 m*l*.

6. 43 litres 45 m*l* from 52 litres 5 m*l*

43 *l* 45 m*l* = 43 × 1000 m*l* + 45 m*l*

= 43000 m*l* + 45 m*l* = 43045 m*l*

52 *l* 5 m*l* = 52 × 1000 m*l* + 5 m*l*

= 52000 m*l* + 5 m*l* = 52005 m*l*

Now, we subtract 52005 m*l* – 43045 m*l* = 8960 m*l*

We shall convert 8960 m*l* into millilitres and litres.

8960 m*l* = 8000 m*l* + 960 m*l* = 8000 m*l* ÷ 1000 + 960 m*l*

= 8 *l* + 960 m*l* = 8 *l* 960 m*l*

Hence, 52 *l* 5 m*l* – 43 *l* 45 m*l* = 8 *l* 960 m*l*.

7.

	l	m*l*
	38	436
–	34	287
	4	149

8.

	l	m*l*
	86	908
–	42	643
	44	265

9.

	l	m*l*
	609	789
–	378	437
	231	352

10.

	l	m*l*
	48	700
–	29	475
	19	225

11.

	l	m*l*
	64	950
–	28	765
	36	185

12.

	l	m*l*
	51	312
–	25	085
	26	227

13.

	l	m*l*
	629	710
–	469	826
	159	884

14.

	l	m*l*
	609	436
–	378	789
	230	647

15.

	l	m*l*
	403	320
–	159	456
	243	864

16.

	l	m*l*
	180	200
–	168	725
	11	475

17.

	l	m*l*
	230	750
–	184	975
	45	775

18.

	l	m*l*
	777	777
–	666	999
	110	778

19.

	l	m*l*
	13	605
–	9	258
	4	347

20.

	l	m*l*
	9	175
–	7	008
	2	167

21.

	l	m*l*
	3	108
–	2	425
		683

22.

	l	m*l*
	139	054
–	49	435
	89	619

23.

	l	m*l*
	31	315
–	25	085
	6	230

24.

	l	m*l*
	48	750
–	39	475
	9	275

25.

	l	m*l*
	303	320
–	59	456
	243	864

26.

	l	m*l*
	70	200
–	48	725
	21	475

27.

	l	m*l*
	10	000
–		925
	9	075

28.

	l	m*l*
	413	555
–	318	777
	94	778

Let Us Do -13D

1. Milk supplied in the morning = 5 *l* 500 m*l*
Milk supplied in the evening = 8 *l* 700 m*l*
Total milk supplied on that day
= 5 *l* 500 m*l* + 8 *l* 700 m*l* = 14 *l* 200 m*l*

l	m*l*
5	500
+ 8	700
14	200

So, 14 *l* 200 m*l* milk did he supply in total on that day.

2. A bucket holds the milk = 5 *l* 325 m*l*
Water added to make the bucket full
= 1 *l* 785 m*l*
Capacity of the bucket
= 5 *l* 325 m*l* + 1 *l* 785 m*l* = 7 *l* 110 m*l*

l	m*l*
5	325
+ 1	785
7	110

So, the capacity of the bucket is 7 *l* 110 m*l*.

3. Anil bought petrol on Sunday = 63 *l* 700 m*l*
He bought petrol on Tuesday = 44 *l* 85 m*l*
Petrol did he buy in all
= 63 *l* 700 m*l* + 44 *l* 85 m*l*
= 107 *l* 785 m*l*

l	m*l*
6 3	7 0 0
+ 4 4	0 8 5
1 0 7	7 8 5

So, 107 *l* 785 m*l* petrol did he buy in all.

4. A milkman sold milk on one day
= 38 *l* 725 m*l*
He sold milk on next day = 35 *l* 750 m*l*
He sold milk on third day = 40 *l* 800 m*l*
Total sold milk in these three days
= 38 *l* 725 m*l* + 35 *l* 750 m*l* + 40 *l* 800 m*l* = 115 *l* 275 m*l*

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

So, 115 *l* 275 m*l* milk did he sell in three days.

5. Milk consumed on Sunday = 4 *l* 600 m*l*
Milk consumed on Monday = 3 *l* 700 m*l*
Total milk consumed on those two days
= 4 *l* 600 m*l* + 3 *l* 700 m*l*
= 8 *l* 300 m*l*

l	m*l*
4	6 0 0
+ 3	7 0 0
8	3 0 0

So, 8 *l* 300 m*l* milk did the family consume on those two days.

6. Water was poured in a drum on Wednesday = 16 *l* 300 m*l*
Water was poured in a drum on Thursday
= 10 *l* 400 m*l*
Total water was poured on both day
= 16 *l* 300 m*l* + 10 *l* 400 m*l*
= 26 *l* 700 m*l*

l	m*l*
1 6	3 0 0
+ 1 0	4 0 0
2 6	7 0 0

So, 26 *l* 700 m*l* total quantity of water in the drum.

7. Milk containing in two buckets
= 8 *l* 125 m*l* and 4 *l* 60 m*l*
Total quantity of milk in the drum
= 8 *l* 125 m*l* + 4 *l* 60 m*l*
= 12 *l* 185 m*l*

l	m*l*
8	1 2 5
+ 4	0 6 0
1 2	1 8 5

So, the total quantity of milk in the drum is 12 *l* 185 m*l*.

8. Oils in three tins
= 16 *l* 300 m*l*, 24 *l* 150 m*l* and 32 *l* 100 m*l*
Total quantity of oil in these three tins
= 16 *l* 300 m*l* + 24 *l* 150 m*l* + 32 *l* 100 m*l*
= 72 *l* 550 m*l*

	l	m*l*
	1 6	3 0 0
	2 4	1 5 0
+	3 2	1 0 0
	7 2	5 5 0

So, the total quantity of oil in three tins is 72 *l* 550 m*l*.

9. Petrol sold to three car drivers
= 16 *l* 250 m*l*, 40 *l* 150 m*l* and 18 *l* 65 m
Total quantity of petrol sold to those three car drivers
= 16 *l* 250 m*l*, 40 *l* 150 m*l* and 18 *l* 65 m*l*
= 74 *l* 465 m*l*

	l	m*l*
	1 6	2 5 0
	4 0	1 5 0
+	1 8	0 6 5
	7 4	4 6 5

So, the total quantity of petrol sold to those three car drivers is 74 *l* 465 m*l*.

10. Anil bought petrol in the morning
= 5 *l* 325 m*l*
He bought petrol in the afternoon
= 2 *l* 750 m*l*
He bought petrol in the evening = 6 *l* 250 m*l*
Total bought petrol did he buy in all
= 5 *l* 325 m*l* + 2 *l* 750 m*l* + 6 *l* 250 m*l* = 14 *l* 325 m*l*

	l	m*l*
	5	3 2 5
	2	7 5 0
+	6	2 5 0
	1 4	3 2 5

So, 14 *l* 325 m*l* petrol did he buy in all.

11. A tanker had petrol = 800 *l*
Out of it, petrol delivered to petrol pump
= 608 *l* 500 m*l*
Petrol left = 800 *l* – 608 *l* 500 m*l*
= 191 *l* 500 m*l*

	l	m*l*
	8 0 0	0 0 0
–	6 0 8	5 0 0
	1 9 1	5 0 0

So, 191 *l* 500 m*l* petrol is left in the tanker now.

12. Kerosene in a drum on a certain day
= 78 *l* 350 m*l*
He sold kerosene on that day
= 59 *l* 575 m*l*
Kerosene was still left
= 78 *l* 350 m*l* – 59 *l* 575 m*l* = 18 *l* 775 m*l*

	l	m*l*
	7 8	3 5 0
–	5 9	5 7 5
	1 8	7 7 5

So, 18 *l* 775 m*l* of kerosene was still left in the drum.

13. Petrol filled in a car tank before starting the journey = 25 *l*
Petrol left in the car at the end of the journey = 8 *l* 350 m*l*

l	m*l*
25	000
− 8	350
16	650

Petrol used in the journey = 25 *l* – 8 *l* 350 m*l* = 16 *l* 650 m*l*
So, 16 *l* 650 m*l* petrol was used in the journey.

14. A shopkeeper has to supply milk to his customers = 60 *l*
He purchases milk from one milkman = 18 *l* 500 m*l*
He purchases milk from another milkman = 22 *l* 750 m*l*
Total purchases milk from both milkmen
= 18 *l* 500 m*l* + 22 *l* 750 m*l*
= 41 *l* 250 m*l*

l	m*l*
18	500
+ 22	750
41	250
60	000
− 41	250
18	750

The shopkeeper need more milk
= 60 *l* – 41 *l* 250 m*l* = 18 *l* 750 m*l*
So, 18 *l* 750 m*l* milk does he need more.

15. Capacity of a bucket = 6 *l*
It contains water = 2 *l* 325 m*l*
Water can be poured into it
= 6 *l* – 2 *l* 325 m*l* = 3 *l* 675 m*l*

l	m*l*
6	000
− 2	325
3	675

So, 3 *l* 675 m*l* more water can be poured into it.

16. Milk gives by two cows = 14 *l* 325 m*l* and 15 *l* 740 m*l*
Total milk gives by these two cows
= 14 *l* 325 m*l* + 15 *l* 740 m*l*
= 30 *l* 065 m*l*
Suresh sells milk to his customers
= 17 *l* 650 m*l*
Milk is left with for his own use
= 30 *l* 065 m*l* – 17 *l* 650 m*l* = 12 *l* 415 m*l*
So, 12 *l* 415 m*l* milk is left with Suresh for his own use.

l	m*l*
14	325
+ 15	740
30	065
− 17	650
12	415

Measure of Time

Let Us Do-14A

1. (a) The short hand is called hour hand.

(b) The longer hand is called minute hand.

(c) The minute hand completes one round in 1 hour.

(d) The hour hand completes one round in 12 hours.

(e) The hour-hand completes 2 rounds in a day.

(f) The minute-hands completes 24 rounds in a day.

2. (a) 25 minutes past 5 = 5 : 25

(b) 35 minutes past 7 = 7 : 35

(c) Quarter-past 4 = 4 : 15

(d) Quarter to 5 = 4 : 45

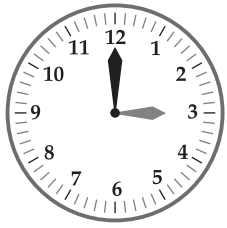
(e) Half-past six = 6 : 30

(f) Quarter-past seven = 7 : 15

(g) 40 minutes past 1 = 1 : 40

(h) 50 minutes past 9 = 9 : 50

3. (a)



3 : 00

3 O′ Clock

(b)

4 : 40

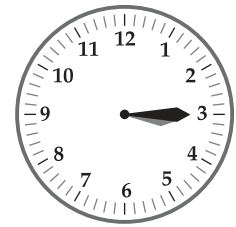
40 minutes past 4

(c)

4 : 15

15 minutes past 4

(d)



3 : 15

15 minutes past 3

(e)

10 : 45

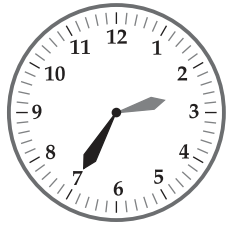
45 minutes past 10

(f)

4 : 30

30 minutes past 4

4. (a)

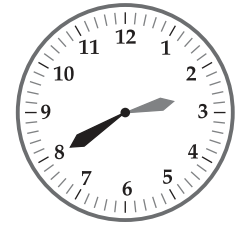


2 : 35

35 minutes past 2

25 minutes to 3

(b)

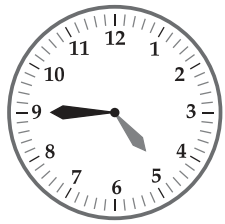


2 : 40

40 minutes past 2

20 minutes to 3

(c)

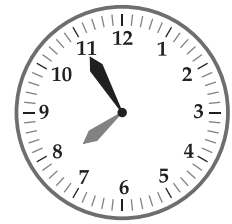


4 : 45

45 minutes past 4

15 minutes to 5

(d)



7 : 55

55 minutes past 7

5 minutes to 8

(e)

8 : 45

45 minutes past 8

15 minutes to 9

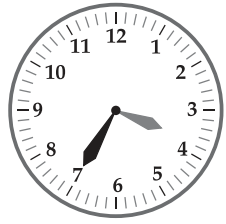
(f)

11 : 35

35 minutes past 11

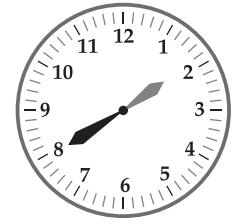
25 minutes to 12

5. (a)



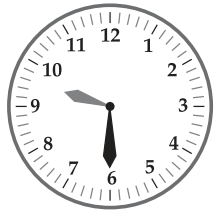
3 : 35

(b)



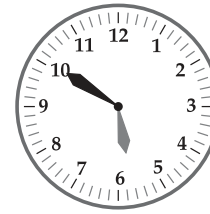
40 minutes past 1

(c)



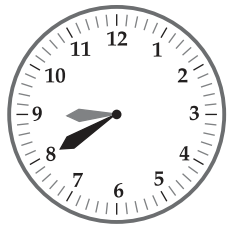
Half past 9

(d)



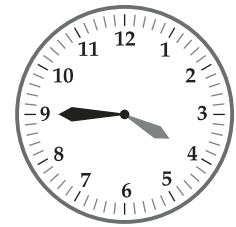
10 minutes to 6

(e)



20 minutes to 9

(f)

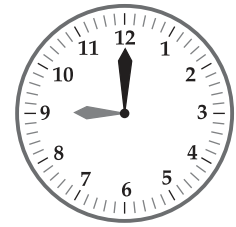


Quarter to 4

(g)

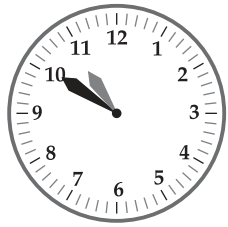
6 : 45

(h)



9 O′ clock

(i)



10 : 50

6. Do yourself.

Let Us Do-14B

1. (a) 3 : 15 in the morning = 3 : 15 a.m.
(b) 3 : 20 in the evening = 3 : 20 p.m.
(c) 11 : 20 at night = 11 : 20 p.m.
(d) 4 : 25 in the evening = 4 : 25 p.m.
(e) 5 : 20 in the morning = 5 : 20 a.m.
(f) 30 minutes after mid-night = 0 : 30 a.m.
(g) 40 minutes past 12 noon = 12 : 40 p.m.
(h) 11 : 50 of-night = 11 : 50 p.m.
(i) half-past 11 in the morning = 11 : 30 a.m.
(j) half-past 10 in the night = 10 : 30 p.m.

2. (a) 4 hours after 10 a.m. = 2 p.m.
(b) 6 hours after 10 p.m. = 4 a.m.

(c) 3 hours after 12 noon = 3 p.m.
(d) 2 hours after 12 mid-night = 2 a.m.
(e) 10 minutes before 12 noon = 11 : 50 a.m.
(f) 5 minutes after 12 mid-night = 0 : 05 a.m.
(g) Quarter to 12 at night = 11 : 45 p.m.
(h) Quarter past 12 at noon = 12 : 15 p.m.

3. (a) The sun rises in the morning at 5 : 30 a.m.
(b) The sun sets in the evening at 7 : 00 p.m.
(c) Priyanka gets up in the morning at 6 : 30 a.m.
(d) Anshul goes to the school in the morning at 6 : 30 a.m.
(e) Kapil goes to the college in the evening at 4 : 30 p.m.
(f) Chinka goes out for play in the evening at 5 : 30 p.m.
(g) Ram goes for a morning walk at 5 : 30 a.m.
(h) Sheela goes for shopping in the evening at 3 : 30 p.m.

Let Us Do-14C

1. We know that 1 day = 24 hours
(a) 5 days = 5 × 24 hours = 120 hours
(b) 8 days = 8 × 24 hours = 192 hours
(c) 11 days = 11 × 24 hours = 264 hours
(d) 15 days = 15 × 24 hours = 360 hours

2. (a) 7 days 10 hours = (7 × 24) hours + 10 hours
= 168 hours + 10 hours = 178 hours
(b) 9 days 11 hours = (9 × 24) hours + 11 hours
= 216 hours + 11 hours = 227 hours
(c) 13 days 15 hours = (13 × 24) hours + 15 hours
= 312 hours + 15 hours = 327 hours
(d) 23 days 23 hours = (23 × 24) hours + 23 hours
= 552 hours + 23 hours = 575 hours

3. We know that 1 hour = 60 minutes
(a) 6 hours = (6 × 60) minutes = 360 minutes
(b) 7 hours = (7 × 60) minutes = 420 minutes
(c) 11 hours = (11 × 60) minutes = 660 minutes
(d) 13 hours = (13 × 60) minutes = 780 minutes
(e) 17 hours = (17 × 60) minutes = 1020 minutes

(f) 20 hours = (20 × 60) minutes = 1200 minutes

(g) 5 hours = (5 × 60) minutes = 300 minutes

(h) 23 hours = (23 × 60) minutes = 1380 minutes

4. (a) 7 hours 25 minutes = (7 × 60) minutes + 25 minutes
= 420 minutes + 25 minutes
= 445 minutes

(b) 10 hours 45 minutes = (10 × 60) minutes + 45 minutes
= 600 minutes + 45 minutes
= 645 minutes

(c) 17 hours 22 minutes = (17 × 60) minutes + 22 minutes
= 1020 minutes + 22 minutes
= 1042 minutes

(d) 20 hours 40 minutes = (20 × 60) minutes + 40 minutes
= 1200 minutes + 40 minutes
= 1240 minutes

(e) 11 hours 35 minutes = (11 × 60) minutes + 35 minutes
= 660 minutes + 35 minutes
= 695 minutes

(f) 14 hours 55 minutes = (14 × 60) minutes + 55 minutes
= 840 minutes + 55 minutes
= 895 minutes

5. (a) 2 days 10 hours 45 minutes
= (2 × 24) hours + 10 hours + 45 minutes
= 48 hours + 10 hours + 45 minutes
= 58 hours + 45 minutes
= (58 × 60) minutes + 45 minutes
= 3480 minutes + 45 minutes
= 3525 minutes

(b) 5 days 12 hours 5 minutes
= (5 × 24) hours + 12 hours + 5 minutes
= 120 hours + 12 hours + 5 minutes
= 132 hours + 5 minutes
= (132 × 60) minutes + 5 minutes
= 7920 minutes + 5 minutes
= 7925 minutes

(c) 7 days 15 hours 55 minutes

= (7 × 24) hours + 15 hours + 55 minutes
= 168 hours + 15 hours + 55 minutes
= 183 hours + 55 minutes
= (183 × 60) minutes + 55 minutes
= 10980 minutes + 55 minutes
= 11035 minutes

(d) 3 days 20 hours 10 minutes

= (3 × 24) hours + 20 hours + 10 minutes
= 72 hours + 20 hours + 10 minutes
= 92 hours + 10 minutes
= (92 × 60) minutes + 10 minutes
= 5520 minutes + 10 minutes
= 5530 minutes

Geometry

Let Us Do-15A

1. (a) The top of a book is a plane surface.
   (b) The floor of your room is a plane surface.
   (c) A football has a curved surface.
   (d) The top of your T.V. set is a plane surface.
   (e) An oil tin has a curved surface.
   (f) The walls of your room have plane surfaces.
2. Electric tube, cigarette, powder box and wrist watch have both plane and curved surfaces.
3. No, it is curved.

Let Us Do-15B

1. (a) Harmonium, wooden box and match box are cuboid shapes.
   (b) Sugarcane, dice and tea box are cube shapes.
   (c) Electric tube, dalda ghee tin and biscuits packets are cylindrical shapes.
   (d) Funnel, conical tent and birthday cap are cone shapes.

2. (a) Cuboid and cube shape have 12 edges.
(b) Pyramid has 6 edges.
(c) Sphere has no edge.

3. (a) Cylinder has no vertex.
(b) Cuboid has 8 vertices.

4. (a) A cube has 6 faces, 12 edges and 8 vertices.
(b) The opposite faces of a cuboid are identical.
(c) All the faces of a cube are identical.
(d) A sphere has no vertex and no edge.
(e) A cone has one plane face, one curved face, one vertex and one edge.
(f) A cylinder has 2 plane faces and no vertex edges.
(g) A cylinder has two edges and no vertex.

Let Us Do-15C

1. Dice and sugar cube that have square faces.

2. Harmonium, match box and wooden box that have rectangular faces.

3. Birthday cap and ice-cream cone that have triangular faces.

4. (a) and (b) are square.

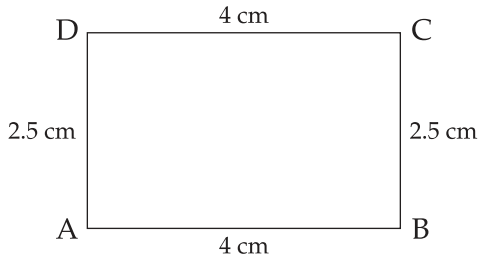
5. (a), (b) and (d) figures is a triangle

6. (a) 2 squares (b) 5 squares (c) 10 squares

7. (a) 2 triangles (b) 5 triangles (c) 8 triangles

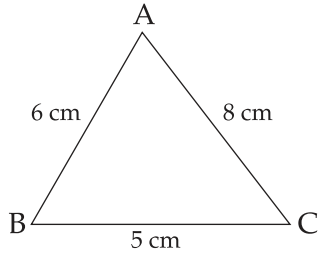
8. (a) A triangle has 3 vertices and 3 sides.
(b) The opposite sides of a rectangle are equal.
(c) All the sides of square are equal.
(d) A circle has no side and no vertex.
(e) A square has 4 sides and 4 vertices.
(f) Sum of the length of the sides of a plane figure is called perimeter.
(g) A rectangle has 1 faces and 4 vertices.

9. (a)



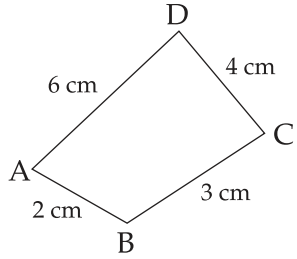
Perimeter of $\square$ ABCD = AB + BC + CD + DA
= (4 + 2.5 + 4 + 2.5) cm
= 13 cm

(b)



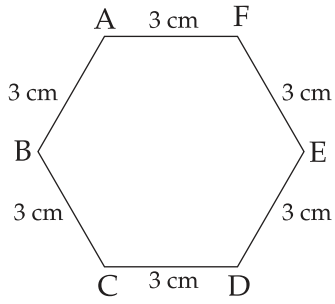
Perimeter of ΔABC
= AB + BC + CA
= (6 + 5 + 8) cm
= 19 cm

(c)



Perimeter of ABCD
= AB + BC + CD + DA
= (2 + 3 + 4 + 6) cm
= 15 cm

(d)



Perimeter of ABCDEF = AB + BC + CD + DE + EF + FA
ABCDEF = (3 + 3 + 3 + 3 + 3 + 3) cm
= 18 cm

Let Us Do-15D

1–6. Do yourself

7. Number of sides of a square = 4

Each side = 5 cm

∴ Perimeter of the square

= 5 cm + 5 cm + 5 cm + 5 cm = 20 cm

8. Three sides of a triangle = 2.5 cm, 3 cm, 4.5 cm

∴ Perimeter of the triangle

= 2.5 cm + 3 cm + 4.5 cm = 10 cm

9. Number of side of a rectangle = 4

Opposite sides of the rectangle = 6 cm and 2.5 cm

∴ Perimeter of the rectangle

= 6 cm + 2.5 cm + 6 cm + 2.5 cm = 17 cm

10. Sides of a plane figure

= 3.5 cm, 4.6 cm, 2.9 cm, 3.8 cm and 4.1 cm.

∴ Perimeter of this plane figure

= 3.5 cm + 4.6 cm + 2.9 cm + 3.8 cm + 4.1 cm

= 18.9 cm