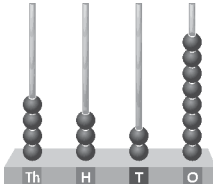


1. LARGE NUMBERS

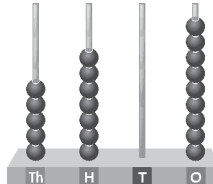
Assessment Time 1.1

- Write the number names for each of the following:
 - $2067 =$ Two thousand sixty-seven.
 - $4928 =$ Four thousand nine hundred twenty-eight.
 - $7856 =$ Seven thousand eight hundred fifty-six.
 - $8836 =$ Eight thousand Eight hundred thirty-six.
- Write the numerals for each of the following:
 - Eight thousand seven hundred sixty-nine $\rightarrow 8769$
 - Four thousand eight hundred five $\rightarrow 4805$
 - Three thousand six hundred eighty-four $\rightarrow 3684$
 - Two thousand five hundred six $\rightarrow 2506$
- Represent the given numbers on the abacus and write the number name in the box:

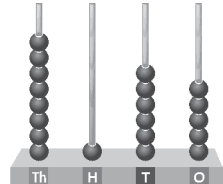
a. 4328



b. 5709

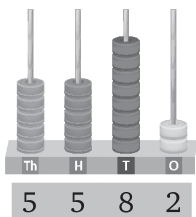


c. 8165

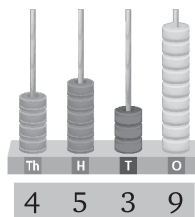


- Count the beads and write the number in the box:

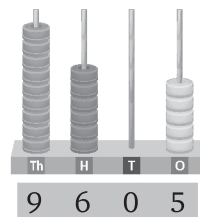
a.



b.



c.



- Complete the following number grids by filling the missing numbers:

2051	2052	2053	2054	2055	2056	2057	2058	2059	2060
2061	2062	2063	2064	2065	2066	2067	2068	2069	2070

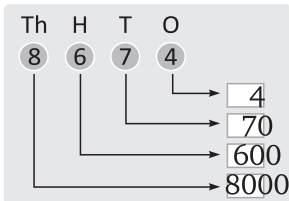
2071	2072	2073	2074	2075	2076	2077	2078	2079	2080
2081	2082	2083	2084	2085	2086	2087	2088	2089	2090
2091	2092	2093	2094	2095	2096	2097	2098	2099	2100

6. Counting by fives, write the numbers starting from:
- 3530, 3535, 3540, 3545, 3550
 - 4250, 4255, 4260, 4265, 4275
7. Counting by tens, write the numbers starting from:
- 2720, 2730, 2740, 2750, 2760
 - 7235, 7245, 7255, 7265, 7275
8. Counting by twenties, write the numbers starting from:
- 6450, 6470, 6490, 6510, 6530
 - 7385, 7405, 7425, 7445, 7465,

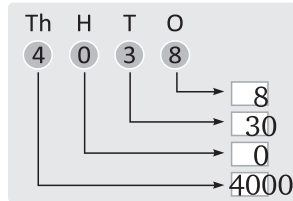
Assessment Time 1.2

1. Write the place value of each digit of the following numbers:

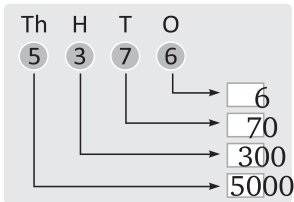
a.



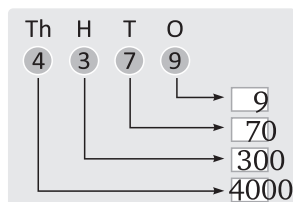
b.



c.



d.



2. Write the place value of the coloured digit for each of the following:

a. 4106 → 100

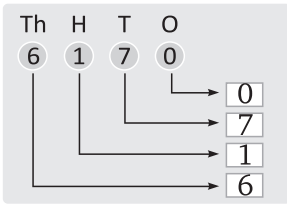
b. 4237 → 30

c. 8724 → 8000

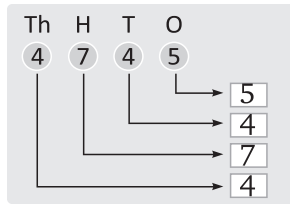
d. 1265 → 200

3. Write the face value of each digit of the following numbers:

a.



b.



4. Write the face value of the coloured digit for each of the following:

a. $4854 \rightarrow 4$

b. $2389 \rightarrow 3$

c. $5028 \rightarrow 2$

d. $8059 \rightarrow 5$

Assessment Time 1.3

1. Write each of the following in the expanded form:

a. $3468 = 3 \text{ thousands} + 4 \text{ hundreds} + 6 \text{ tens} + 8 \text{ ones}$
 $= 3000 + 400 + 60 + 8$

b. $5037 = 5 \text{ thousands} + 0 \text{ hundred} + 3 \text{ tens} + 7 \text{ ones}$
 $= 5000 + 0 + 30 + 7$

c. $8754 = 8 \text{ thousands} + 7 \text{ hundreds} + 5 \text{ tens} + 4 \text{ ones}$
 $= 8000 + 700 + 50 + 4$

d. $9649 = 9 \text{ thousands} + 6 \text{ hundreds} + 4 \text{ tens} + 9 \text{ ones}$
 $= 9000 + 600 + 40 + 9$

2. Write each of the following in the short form:

a. $4000 + 600 + 70 + 4 = 4674$

b. $5000 + 700 + 0 + 5 = 5705$

c. $7000 + 800 + 90 + 7 = 7897$

d. $9000 + 0 + 70 + 9 = 9079$

Assessment Time 1.4

1. Write the successor of each of the following numbers:

a. $5768 \rightarrow 5769$

b. $6174 \rightarrow 6175$

c. $9169 \rightarrow 9170$

d. $8175 \rightarrow 8176$

2. Write the predecessor of each of the following numbers:

a. $5740 \rightarrow 5739$

b. $8138 \rightarrow 8137$

c. $7850 \rightarrow 7849$

d. $8000 \rightarrow 7999$

Assessment Time 1.5

- Put ' $<$ ', ' $>$ ' or ' $=$ ' sign in the boxes:
 - $4286 > 976$
 - $8137 > 5496$
 - $6737 = 6737$
 - $6028 < 7096$
- Encircle the smallest number:
 - 9143, 6708, 5976, 3894
 - 6897, 4706, 3784, 9763
 - 7238, 3764, 8644, 5281
 - 8143, 7064, 5796, 374
- Encircle the greatest number:
 - 4127, 6738, 8048, 2376
 - 3197, 6725, 9172, 8374
 - 8137, 9162, 8145, 5832
 - 9063, 7058, 8237, 537
- Arrange each of the following in ascending order:
 - 4728, 5037, 5728, 9167
 - 2036, 5773, 7228, 8148
 - 2056, 5089, 7032, 8143
 - 6725, 7656, 8146, 8189
- Arrange each of the following in descending order:
 - 8967, 8796, 8257, 5178
 - 6758, 5794, 4567, 2809
 - 8597, 7137, 6385, 2096
 - 9149, 7149, 7143, 6372

Assessment Time 1.6

- Form the four different numbers with the given digits:
 - 7, 4, 5, 1 $\rightarrow$ 1457, 1547, 1754, 1745
 - 8, 1, 4, 0 $\rightarrow$ 1048, 1408, 1804, 1840
 - 7, 6, 2, 8 $\rightarrow$ 8267, 2678, 2786, 2687
 - 3, 7, 2, 8 $\rightarrow$ 2378, 2738, 1873, 2387
- Form the greatest and smallest 4-digit number with the given digits:

	Greatest	Smallest
a. 6, 0, 9, 7	9760	6079
b. 3, 7, 8, 5	8753	3578
c. 6, 1, 3, 9	9631	1369
d. 6, 7, 1, 4	7641	1467

Assessment Time 1.7

1. Round off the following numbers to the nearest 10:

- a. $743 \rightarrow 740$ b. $478 \rightarrow 480$ c. $634 \rightarrow 630$
 d. $876 \rightarrow 880$ e. $6857 \rightarrow 6860$ f. $4576 \rightarrow 4580$
 g. $2785 \rightarrow 2790$ h. $5693 \rightarrow 5690$

2. Round off the following numbers to the nearest 100:

- a. $568 \rightarrow 600$ b. $524 \rightarrow 500$ c. $417 \rightarrow 400$
 d. $873 \rightarrow 900$ e. $2455 \rightarrow 2500$ f. $7384 \rightarrow 7400$
 g. $4729 \rightarrow 4700$ h. $9143 \rightarrow 9100$

Assessment Time 1.8

1. Express each of the following as a Roman Numerals:

- a. $27 \rightarrow \text{XXVII}$ b. $34 \rightarrow \text{XXXIV}$ c. $39 \rightarrow \text{XXXIX}$
 d. $48 \rightarrow \text{XLVIII}$ e. $58 \rightarrow \text{LVIII}$ f. $68 \rightarrow \text{LXVIII}$
 g. $85 \rightarrow \text{LXXXV}$ h. $96 \rightarrow \text{XCVI}$

2. Express each of the following as a Hindu-Arabic numerals:

- a. $\text{XIII} \rightarrow 13$ b. $\text{XXIX} \rightarrow 29$ c. $\text{XXVII} \rightarrow 27$
 d. $\text{XLIII} \rightarrow 63$ e. $\text{LXVI} \rightarrow 66$ f. $\text{LXXXVI} \rightarrow 86$
 g. $\text{XVII} \rightarrow 17$ h. $\text{XVIII} \rightarrow 18$

Mental Maths

1. 10000 2. 1000000 3. 9349 4. 3000

Multiple Choice Questions

Tick (✓) the correct option:

1. (b) 2. (c) 3. (d) 4. (b) 5. (c)

2. Addition

Assessment Time 2.1

1. Add the following:

a.

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

b.

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

c.

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

6 Key Math-03

d.

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

e.

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

f.

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

2. Add the following:

a.

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

b.

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

c.

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

d.

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

e.

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

f.

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

Assessment Time 2.2

1. Add the following:

a.

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

b.

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

c.

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

d.

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

e.

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

f.

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

2. Add the following:

a.

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

b.

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

c.

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

d.

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

e.

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

f.

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

Assessment Time 2.3

1. Fill in the blanks:

a. $628 + 314 = 314 + \boxed{628}$

b. $529 + 0 = \boxed{529}$

c. $85 + (63 + 28) = (85 + \boxed{63}) + 28$

d. $376 + (428 + \boxed{309}) = (376 + 428) + 309$

e. $614 + \boxed{0} = 614$

f. $539 + (\boxed{307} + \boxed{419}) = (539 + 304) + 419$

2. Add the following numbers in two different ways and verify your answer:

a. 412, 638

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

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

So, $412 + 638 = 638 + 412$

8 Key Math-03

b. 4286, 2394

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

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

So, $4286 + 2394 = 2394 + 4286$

c. 3068, 2727

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

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

So, $3068 + 2727 = 2727 + 3068$

d. 3168, 979

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

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

So, $3167 + 979 = 979 + 3167$

3. a. $(314 + 628) + 416 = 314 + (628 + 416)$

$$942 + 416 = 314 + 1044$$

$$1358 = 1358$$

b. $(4281 + 376) + 674 = 4281 + (376 + 674)$

$$4657 + 674 = 4281 + 1050$$

$$5331 = 5331$$

c. $(2068 + 5761) + 3028 = 2068 + (5761 + 3028)$

$$7829 + 3028 = 2068 + 8789$$

$$10857 = 10857$$

d. $(2376 + 3496) + 874 = 2376 + (3496 + 874)$

$$5872 + 874 = 2376 + 4370$$

$$6746 = 6746$$

Assessment Time 2.4

1. Number of votes Tanvi got = 3963

Number of votes Sejal got = 3835

Total number of votes = $3963 + 3835$

$$= 7798$$

The votes were polled in all is 7798.

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

2. Number of men in village = 1568

Number of women in village = 1698

Number of children in village = 3459

Total population of the village

$$= 1568 + 1698 + 3459$$

$$= 6725$$

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

Hence, the total population of the village is 6725.

3. Largest four digit number = 9999

Smallest four digit number = 1000

Sum of both digit = $9999 + 1000$

$$= 10999$$

The sum of smallest and largest 4-digit number is 10999.

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

4. Number of boys in college = 2346

Number of girls in college = 1867

Total number of students in college

$$= 2346 + 1867 = 4213$$

Hence, total number of students in college is 4213.

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

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

Hence, the number which is 4256 more than 6578 is 10834.

6. Vehicles produced in June = 3478

Vehicles produced in July = 4875

Vehicles produced in August = 5658

Total number of vehicles produced in three months

$$= 3478 + 4875 + 5658 = 14011$$

Hence, total number of vehicles produced is 14911.

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

Mental Maths

1. The sum of 4000 and 3000 is **7000**.
2. The sum of 4000 and 5000 is **9000**.
3. The sum of 600 and 200 is **800**.
4. The sum of 250 and 750 is **1000**.

Multiple Choice Questions

Tick (✓) the correct option:

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

3. SUBTRACTION

Assessment Time 3.1

1. Subtract the following:

a.

	Th	H	T	O
	5	4	5	3
-	2	3	4	1
	3	1	1	2

b.

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

c.

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

d.

	Th	H	T	O
	5	0	0	8
-	2	0	0	4
	3	0	0	4

e.

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

f.

	Th	H	T	O
	8	9	6	4
-	4	5	3	2
	4	4	3	2

g.

	Th	H	T	O
	3	3	2	7
-	1	2	1	6
	2	1	1	1

h.

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

i.

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

Assessment Time 3.2

1. Subtract the following:

a.

	Th	H	T	O
	5	9	9	12
	8	8	8	8
-	3	8	4	5
	2	1	5	7

b.

	Th	H	T	O
	7	9	9	15
	8	8	8	8
-	5	3	0	8
	2	6	9	7

c.

	Th	H	T	O
	7	11	11	13
	8	8	8	8
-	3	7	8	5
	4	4	3	8

d.

	Th	H	T	O
	4	9	9	10
	5	0	0	0
-	2	5	8	6
	2	4	1	4

e.

	Th	H	T	O
	6	9	9	10
	7	0	0	0
-	4	8	5	2
	2	1	4	8

f.

	Th	H	T	O
	7	12	7	11
	8	2	8	1
-	7	5	6	3
		7	1	8

g.

	Th	H	T	O
	7	12	11	13
	8	3	2	3
-	5	6	8	5
	2	6	3	8

h.

	Th	H	T	O
	6	10	8	14
	7	0	0	4
-	4	3	8	6
	2	7	0	8

i.

	Th	H	T	O
	4	13	12	12
	5	4	3	2
-	3	4	5	8
	1	9	7	4

Assessment Time 3.3

1. Fill in the blanks:

a. $528 - \boxed{0} = 528$

b. $4175 - 0 = \boxed{4175}$

c. $2395 - 1395 = \boxed{1000}$

d. $914 - \boxed{914} = 0$

e. $7348 - \boxed{7348} = 0$

f. $4178 - 0 = \boxed{4178}$

Assessment Time 3.4

1. For each of the following addition facts, write two subtraction facts:

a. $623 + 235 = 858$, $858 - 235 = \boxed{623}$ and $858 - 623 = \boxed{235}$

b. $324 + 432 = 756$

c. $4216 + 3472 = 7688$

$756 - 324 = 432$

$7688 - 4216 = 3472$

$756 - 432 = 324$

$7688 - 3472 = 4216$

d. $1245 + 3414 = 4659$

$4659 - 1245 = 3414$

$4659 - 3414 = 1245$

2. Subtract each of the following and check the answer by addition:

a.

	Th	H	T	O
		3	13	
	5	4	3	7
-	2	3	4	6
	3	0	9	1

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

12 Key Math-03

b.

	Th	H	T	O
	1	6	11	14
	3	7	2	4
-	1	6	4	5
	2	0	7	9

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

c.

	Th	H	T	O
	5	11	13	13
	6	2	4	3
-	3	2	8	4
	2	9	5	9

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

d.

	Th	H	T	O
	5	9	10	
	6	0	0	8
-	5	2	4	6
	0	7	6	2

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

Assessment Time 3.5

1. Total population in village = 7895

Number of men = 1859

Number of women = 1964

So, number of children

$$= 7895 - (1859 + 1964)$$

$$= 7895 - 3823$$

$$= 4072$$

Hence, the number of children in the village is 4072.

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

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

2. Total passengers in the train = 1048

Passenger got down at station = 646

Passenger got down at other station = 168

So, passengers left in the train

$$= 1048 - (646 + 168)$$

$$= 1048 - 814$$

$$= 234$$

Hence, the number of passengers left in the train is 234.

	Th	H	T	O
		1	1	
		6	4	6
+		1	6	8
		8	1	4

	Th	H	T	O
	0	10		
	7	8	9	5
-		8	1	4
		2	3	4

3. Total number of students in university = 8565

$$\text{Number of girls} = 5679$$

$$\begin{aligned}\text{Number of boys} &= 8565 - 5679 \\ &= 2886\end{aligned}$$

The total number of boys in university is 2886.

4. Total number of seats in cineplex = 1360

$$\text{Number of seats occupied} = 1257$$

$$\begin{aligned}\text{Number of seats vacant} &= 1360 - 1257 \\ &= 103\end{aligned}$$

Hence, the total number of seats vacant is 103.

5. Total number of books in library = 8500

$$\text{Number of books lent} = 5578$$

$$\begin{aligned}\text{Number of books left in the library} \\ &= 8500 - 5578 = 2922\end{aligned}$$

Hence, the number of books left in the library is 2922.

6. Total visitors of red fort = 8860

$$\text{Number of visitors on the first day} = 2350$$

$$\text{Number of visitors on the second day} = 1867$$

$$\text{Number of visitors on the third day} = 3528$$

$$\begin{aligned}\text{Number of visitors on the fourth day} \\ &= 8860 - (2350 + 1867 + 3528) \\ &= 8860 - 7745 = 1115\end{aligned}$$

Hence, the number of visitors on fourth day is 1115.

7. Total number of flowers in the garden = 4784

$$\text{Number of roses} = 2823$$

$$\text{Number of daisies} = 594$$

$$\begin{aligned}\text{Number of dahelia} &= 4784 - (2823 + 594) \\ &= 4784 - 3417 = 1367\end{aligned}$$

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

	Th	H	T	O
			7	14
	4	7	8	4
-	3	4	1	7
	1	3	6	7

	Th	H	T	O
	7	14	15	15
	8	5	6	5
-	5	6	7	9
	2	8	8	6

	Th	H	T	O
			5	10
	1	3	6	0
-	1	2	5	7
	0	1	0	3

	Th	H	T	O
	7	14	9	10
	8	5	0	0
-	5	5	7	8
	2	9	2	2

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

	Th	H	T	O
			5	10
	8	8	6	0
-	7	7	4	5
	1	1	1	5

The total number of dahelia is 1367.

Mental Maths**1. Fill in the blanks:**

a. $5428 - 100 = 5328$

b. $6859 - 1000 = 5859$

c. $2387 - 10 = 2377$

d. $8164 - 0 = 8164$

2. 25 less than 300 is equal to **275**

3. 60 less than 450 is equal to **390**

4. $7000 + 2000 - 5000 = 4000$

Multiple Choice Questions**Tick (✓) the correct option:**

1. (b)

2. (c)

3. (c)

4. (d)

4. Multiplication

Assessment Time 4.1**1. Fill in the boxes:**

a. $15 \times 6 = 90$

b. $18 \times 8 = 144$

c. $19 \times 9 = 171$

d. $16 \times 6 = 96$

e. $13 \times 7 = 91$

f. $15 \times 9 = 135$

g. $11 \times 5 = 55$

h. $17 \times 9 = 153$

i. $20 \times 4 = 80$

j. $12 \times 4 = 48$

k. $16 \times 9 = 144$

l. $14 \times 6 = 84$

m. $16 \times 3 = 48$

n. $19 \times 6 = 114$

o. $18 \times 5 = 90$

p. $19 \times 7 = 133$

q. $12 \times 3 = 36$

r. $14 \times 5 = 70$

s. $15 \times 6 = 90$

t. $13 \times 8 = 104$

u. $14 \times 7 = 98$

v. $19 \times 5 = 95$

w. $20 \times 6 = 120$

x. $19 \times 8 = 152$

Assessment Time 4.2**1. Fill in the blanks:**

a. $28 \times 46 = 46 \times 28$

b. $281 \times 6 = 6 \times 281$

c. $(15 \times 12) \times 16 = 15 \times (12 \times 16)$

d. $2527 \times 0 = 0$

e. $5701 \times 1 = 5701$

f. $714 \times 0 = 0$

g. $2624 \times 45 = 45 \times 2624$

h. $690 \times 1 = 690$

2. Find the missing factor for each of the following:

a. $63 = 9 \times 7$

b. $38 = 19 \times 2$

c. $81 = 9 \times 9$

d. $75 = 5 \times 15$

e. $60 = 6 \times \boxed{10}$

f. $50 = 25 \times \boxed{2}$

g. $24 = 8 \times \boxed{3}$

h. $36 = 9 \times \boxed{4}$

Assessment Time 4.3

1. Multiply the following:

a.

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

b.

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

c.

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

d.

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

e.

	Th	H	T	O
		1	1	
		2	5	7
×				2
		5	1	4

f.

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

g.

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

h.

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

i.

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

Assessment Time 4.4

1. Multiply the following:

a.

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

b.

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

c.

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

d.

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

e.

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

f.

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

2. Multiply the following:

a.

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

b.

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

c.

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

d.

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

e.

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

f.

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

Assessment Time 4.5

1. Number of pages a book contain = 232

$$\begin{aligned} \text{Number of pages in 16 such books} &= 232 \times 16 \\ &= 3712 \end{aligned}$$

Hence, there are 3712 pages in 16 such books.

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

2. Number of word Naman type in 1 minutes = 64

$$\begin{aligned} \text{Number of words Naman type in 1 hour} \\ &= 64 \times 60 \\ &= 3840 \end{aligned}$$

So, Naman can type 3840 words in 1 hour.

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

3. The cost of 1 chair = ₹ 395

$$\begin{aligned}\text{The cost of 28 chairs} &= ₹ 395 \times 28 \\ &= ₹ 11060\end{aligned}$$

Hence, the cost of 28 chairs is ₹ 11060.

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

4. Number of toffees a box contain = 64

$$\begin{aligned}\text{Number of toffees in 24 boxes contain} \\ &= 64 \times 24 \\ &= 1536\end{aligned}$$

Hence, there are 1536 toffees in 24 such boxes.

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

5. Number of mangoes in 1 box = 56

$$\begin{aligned}\text{Number of mangoes in 35 boxes} &= 56 \times 35 \\ &= 1960\end{aligned}$$

Hence, there are 1960 mangoes in 35 such boxes.

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

6. Number of seats in one row = 256

$$\begin{aligned}\text{Number of seats in 72 rows} &= 256 \times 72 \\ &= 18432\end{aligned}$$

Hence, there are 18432 seats in the auditorium.

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

7. Number of passengers in a bus = 52

$$\begin{aligned}\text{Number of passengers in 26 such buses} \\ &= 52 \times 26 \\ &= 1352\end{aligned}$$

Hence, there are 1352 passengers in 26 such buses.

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

Mental Maths

Put the correct sign '<', '>' or '=' in the blanks.

1. 50×10 68×10
2. 80×100 8×1000
3. 15×90 16×80
4. 312×5 300×100
5. 40×100 41×100

Multiple Choice Questions

Tick (✓) the correct option:

1. (a)
2. (c)
3. (d)
4. (a)
5. (b)

5. Division

Assessment Time 5.1

1. Divide the following by repeated subtraction:

- a. $40 - 5 = 35 - 5 = 30 - 5 = 25 - 5 = 20 - 5 = 15 - 5 = 10 - 5 = 5 - 5 = 0$

Hence, 5 is subtracted 8 times from 40 to get 0.

So, $40 \div 5 = 8$

- b. $54 - 9 = 45 - 9 = 36 - 9 = 27 - 9 = 18 - 9 = 9 - 9 = 0$

Hence, 9 is subtracted 6 times from 54 to get 0.

So, $54 \div 9 = 6$

- c. $80 - 10 = 70 - 10 = 60 - 10 = 50 - 10 = 40 - 10 = 30 - 10 = 20 - 10 = 10 - 10 = 0$

Hence, 10 is subtracted 8 times from 80 to get 0.

So, $80 \div 10 = 8$

- d. $72 - 8 = 64 - 8 = 56 - 8 = 48 - 8 = 40 - 8 = 32 - 8 = 24 - 8 = 16 - 8 = 8 - 8 = 0$

Hence, 8 is subtracted 9 times from 72 to get 0.

So, $72 \div 8 = 9$

- e. $81 - 9 = 72 - 9 = 63 - 9 = 54 - 9 = 45 - 9 = 36 - 9 = 27 - 9 = 18 - 9 = 9 - 9 = 0$

Hence, 9 is subtracted 9 times from 81 to get 0.

So, $81 \div 9 = 9$

f. $56 - 8 = 48 - 8 = 40 - 8 = 32 - 8 = 24 - 8 = 16 - 8 = 8 - 8 = 0$

Hence, 8 is subtracted 7 times from 56 to get 0.

So, $56 \div 8 = 7$

Assessment Time 5.2

1. Write two division facts of each of the following multiplication facts:

a. $15 \times 4 = 60$

$60 \div 4 = 15$ and $60 \div 15 = 4$

b. $13 \times 5 = 65$

$65 \div 13 = 5$ and $65 \div 5 = 13$

c. $8 \times 10 = 80$

$80 \div 10 = 8$ and $80 \div 8 = 10$

d. $5 \times 9 = 45$

$45 \div 5 = 9$ and $45 \div 9 = 5$

2. Write one multiplication fact for each of the following division facts:

a. $96 \div 16 = 6$

$16 \times 6 = 96$

b. $72 \div 9 = 8$

$8 \times 9 = 72$

c. $80 \div 5 = 16$

$5 \times 16 = 80$

d. $90 \div 15 = 6$

$15 \times 6 = 90$

Assessment Time 5.3

1. Fill in the blanks:

a. $524 \div 524 = 1$

b. $796 \div 796 = 1$

c. $0 \div 492 = 0$

d. $3062 \div 0 = \text{meaningless}$

e. $241 \div 0 = \text{meaningless}$

f. $816 \div 0 = \text{meaningless}$

g. $413 \div 413 = 1$

h. $4082 \div 4082 = 1$

i. $0 \div 816 = 0$

j. $0 \div 1 = 0$

Assessment Time 5.4

1. Divide the following:

$$\begin{array}{r} 5 \overline{)84} (16 \\ -5 \downarrow \\ \underline{34} \\ -30 \\ \underline{4} \end{array}$$

Quotient = 16

Remainder = 4

$$\begin{array}{r} 9 \overline{)97} (10 \\ -9 \downarrow \\ \underline{07} \\ -00 \\ \underline{7} \end{array}$$

Quotient = 10

Remainder = 7

$$\begin{array}{r} 7 \overline{)93} (13 \\ -7 \downarrow \\ \underline{23} \\ -21 \\ \underline{2} \end{array}$$

Quotient = 13

Remainder = 2

$$\begin{array}{r} 5 \overline{)63} (12 \\ -5 \downarrow \\ \underline{13} \\ -10 \\ \underline{3} \end{array}$$

Quotient = 12

Remainder = 3

$$\begin{array}{r} 6 \overline{)88} (14 \\ -6 \downarrow \\ \underline{28} \\ -24 \\ \underline{4} \end{array}$$

Quotient = 14

Remainder = 4

$$\begin{array}{r} 4 \overline{)87} (21 \\ -8 \downarrow \\ \underline{07} \\ -4 \\ \underline{3} \end{array}$$

Quotient = 21

Remainder = 3

2. Divide the following and verify your answer:

$$\begin{array}{r} 9 \overline{)674} (74 \\ -63 \downarrow \\ \underline{44} \\ -36 \\ \underline{8} \end{array}$$

Q = 74, R = 8

$$\begin{array}{r} 8 \overline{)795} (99 \\ -72 \downarrow \\ \underline{75} \\ -72 \\ \underline{3} \end{array}$$

Q = 99, R = 3

$$\begin{array}{r} 6 \overline{)978} (163 \\ -6 \downarrow \\ \underline{37} \\ -36 \downarrow \\ \underline{18} \\ -18 \\ \underline{0} \end{array}$$

Q = 163, R = 0

$$\begin{array}{r} 4 \overline{)835} (208 \\ -8 \downarrow \\ \underline{03} \\ -0 \downarrow \\ \underline{35} \\ -32 \\ \underline{3} \end{array}$$

Q = 208, R = 3

$$\begin{array}{r} 8 \overline{)853} (106 \\ -8 \downarrow \\ \underline{05} \\ -00 \downarrow \\ \underline{53} \\ -48 \\ \underline{5} \end{array}$$

Q = 106, R = 5

$$\begin{array}{r} 5 \overline{)794} (158 \\ -5 \downarrow \\ \underline{29} \\ -25 \downarrow \\ \underline{44} \\ -40 \\ \underline{4} \end{array}$$

Q = 158, R = 4

3. Divide the following and verify your answer:

a. $7 \overline{)7838}(1119$

$$\begin{array}{r}
 -7 \downarrow \\
 \hline
 08 \downarrow \\
 -7 \downarrow \\
 \hline
 13 \downarrow \\
 -7 \downarrow \\
 \hline
 68 \downarrow \\
 -63 \downarrow \\
 \hline
 5
 \end{array}$$

$Q = 1119, R = 5$

b. $9 \overline{)8954}(994$

$$\begin{array}{r}
 -81 \downarrow \\
 \hline
 85 \downarrow \\
 -81 \downarrow \\
 \hline
 44 \downarrow \\
 -36 \downarrow \\
 \hline
 8
 \end{array}$$

$Q = 994, R = 8$

c. $5 \overline{)9748}(1949$

$$\begin{array}{r}
 -5 \downarrow \\
 \hline
 47 \downarrow \\
 -45 \downarrow \\
 \hline
 24 \downarrow \\
 -20 \downarrow \\
 \hline
 48 \downarrow \\
 -45 \downarrow \\
 \hline
 3
 \end{array}$$

$Q = 1949, R = 3$

d. $5 \overline{)6389}(1277$

$$\begin{array}{r}
 -5 \downarrow \\
 \hline
 13 \downarrow \\
 -10 \downarrow \\
 \hline
 38 \downarrow \\
 -35 \downarrow \\
 \hline
 39 \downarrow \\
 -35 \downarrow \\
 \hline
 4
 \end{array}$$

$Q = 1277, R = 4$

e. $4 \overline{)3796}(949$

$$\begin{array}{r}
 -36 \downarrow \\
 \hline
 19 \downarrow \\
 -16 \downarrow \\
 \hline
 36 \downarrow \\
 -36 \downarrow \\
 \hline
 0
 \end{array}$$

$Q = 949, R = 0$

f. $7 \overline{)8394}(1199$

$$\begin{array}{r}
 -7 \downarrow \\
 \hline
 13 \downarrow \\
 -7 \downarrow \\
 \hline
 69 \downarrow \\
 -63 \downarrow \\
 \hline
 64 \downarrow \\
 -63 \downarrow \\
 \hline
 1
 \end{array}$$

$Q = 1199, R = 1$

Assessment Time 5.5

1. Look at the following table:

	Dividend	Divisor	Quotient	Remainder
a.	458	10	45	8
b.	737	10	73	7
c.	3506	10	350	6
d.	532	100	5	32
e.	7967	100	79	67
f.	7148	100	71	48
g.	6132	1000	6	132
h.	8104	1000	8	104
i.	6009	1000	6	009

Assessment Time 5.6

1. The cost of 8 chairs = ₹ 3648

The cost of 1 chair = ₹ $3648 \div 8$

$$= ₹ 456$$

The cost of one chair is ₹ 456.

$$\begin{array}{r}
 456 \\
 8 \overline{) 3648} \\
 \underline{-32} \downarrow \\
 44 \downarrow \\
 \underline{-40} \downarrow \\
 48 \downarrow \\
 \underline{-48} \downarrow \\
 0
 \end{array}$$

2. No. of tyre that one truck require = 8

No. of tyre that 1064 truck require = $1064 \div 8$

$$= 133$$

Hence, there are 133 trucks would get tyres,
if there are 1064 tyres in stock.

$$\begin{array}{r}
 133 \\
 8 \overline{) 1064} \\
 \underline{-8} \downarrow \\
 26 \downarrow \\
 \underline{-24} \downarrow \\
 24 \downarrow \\
 \underline{-24} \downarrow \\
 0
 \end{array}$$

3. Number of plants planted in 9 rows = 342
 Number of plants planted in one row = $342 \div 9$
 $= 38$
 There are 38 plants planted in each row.
4. Number of pencils in 5 boxes = 840
 Number of pencils in one box = $840 \div 5$
 $= 168$
 There are 138 pencils in each box,
 if each box has equal number of pencils.
5. The product of two numbers = 8712
 One of them = 9
 Then other number = $8712 \div 9$
 $= 968$
 The other number is 968.
6. Number of oranges packed in 7 boxes = 4536
 Number of oranges packed in 1 box = $4536 \div 7$
 $= 648$
 There are 648 oranges in each box,
 if each box has equal number of oranges.

$$\begin{array}{r} 38 \\ 9 \overline{) 342} \\ \underline{-27} \\ 72 \\ \underline{-72} \\ 0 \end{array}$$

$$\begin{array}{r} 168 \\ 5 \overline{) 840} \\ \underline{-5} \\ 34 \\ \underline{-30} \\ 40 \\ \underline{-40} \\ 0 \end{array}$$

$$\begin{array}{r} 968 \\ 9 \overline{) 8712} \\ \underline{-81} \\ 61 \\ \underline{-54} \\ 72 \\ \underline{-72} \\ 0 \end{array}$$

$$\begin{array}{r} 648 \\ 7 \overline{) 4536} \\ \underline{-42} \\ 33 \\ \underline{-28} \\ 56 \\ \underline{-56} \\ 0 \end{array}$$

24 Key Math-03

7. The cost of 6 bicycles = ₹ 11,358

$$\begin{aligned}\text{The cost of 1 bicycle} &= ₹ 11,358 \div 6 \\ &= ₹ 1893\end{aligned}$$

Hence, the cost of one bicycle is ₹ 1893.

$$\begin{array}{r} 1893 \\ 6 \overline{) 11358} \\ \underline{-6} \\ 53 \\ \underline{-48} \\ 55 \\ \underline{-54} \\ 18 \\ \underline{-18} \\ 0 \\ \underline{} \\ 0 \end{array}$$

SEL

Total sweaters = 384

Each family gets = 4

$$\begin{aligned}\text{So, no. of families} &= 384 \div 4 \\ &= 96\end{aligned}$$

$$\begin{array}{r} 96 \\ 4 \overline{) 384} \\ \underline{-36} \\ 24 \\ \underline{-24} \\ 0 \end{array}$$

Mental Maths

1. $538 \div (528 + 10) = \boxed{1}$
2. $(619 - 619) \div 690 = \boxed{0}$
3. $380 \div (18 - 17) = \boxed{380}$
4. $649 \div (659 - 10) = \boxed{1}$
5. $\boxed{0} \div 630 = 0$
6. $856 \div (857 - 1) = \boxed{1}$

Multiple Choice Questions

Tick (✓) the correct option:

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

6 FRACTION

Assessment Time 6.1

1. Write numerator and denominator each of the following fractions:
 - a. $\frac{4}{7}$ Numerator 4, Denominator 7
 - b. $\frac{5}{9}$ Numerator 5, Denominator 9

2. Write the fraction, whose:

a. Numerator = 3
Denominator = 5

$\frac{3}{5}$

b. Numerator = 9
Denominator = 17

$\frac{9}{17}$

c. Numerator = 2
Denominator = 7

$\frac{2}{7}$

d. Numerator = 8
Denominator = 11

$\frac{8}{11}$

3. Write each of the following fractions in words:

a. $\frac{3}{8} \rightarrow$ Three-eighths

b. $\frac{4}{7} \rightarrow$ Four-sevenths

c. $\frac{2}{5} \rightarrow$ Two-fifths

d. $\frac{4}{9} \rightarrow$ Four-ninths

4. Write each of the following fractions in numbers:

a. Two-fifths $\rightarrow \frac{2}{5}$

b. Three-sevenths $\rightarrow \frac{3}{7}$

c. Two-ninths $\rightarrow \frac{2}{9}$

d. Four-tenths $\rightarrow \frac{4}{10}$

Assessment Time 6.2**1. Colour the pictures and find the number:**

(Do yourself)

2. Find the following:

a. $\frac{1}{3}$ of 24 = $\frac{1}{3} \times 24 = 8$

b. $\frac{1}{4}$ of 20 = $\frac{1}{4} \times 20 = 5$

c. $\frac{1}{2}$ of 16 = $\frac{1}{2} \times 16 = 8$

d. $\frac{1}{4}$ of 28 = $\frac{1}{4} \times 28 = 7$

e. $\frac{1}{5}$ of 25 = $\frac{1}{5} \times 25 = 5$

f. $\frac{1}{6}$ of 30 = $\frac{1}{6} \times 30 = 5$

g. $\frac{1}{3}$ of 18 = $\frac{1}{3} \times 18 = 6$

h. $\frac{1}{5}$ of 55 = $\frac{1}{5} \times 55 = 11$

3. Number of pages a book contain = 126

Aarush read = $\frac{1}{2}$ book

$$\begin{aligned}\text{Number of pages left to read} &= 126 \times \frac{1}{2} \\ &= 63 \text{ pages}\end{aligned}$$

Assessment Time 6.3

1. Which of the following groups of fractions are like fractions?

(a) $\frac{3}{13}, \frac{8}{13}, \frac{9}{13}, \frac{18}{13}$ Like Fraction, since denominator is same.

(b) $\frac{3}{9}, \frac{6}{11}, \frac{5}{13}, \frac{8}{9}$ Unlike Fraction, since denominator of each fraction is different.

(c) $\frac{3}{7}, \frac{5}{7}, \frac{9}{10}, \frac{11}{16}$ Unlike Fraction, since denominator of each fraction is different.

(d) $\frac{3}{17}, \frac{5}{17}, \frac{7}{17}, \frac{9}{17}$ Like Fraction, since denominator of each fraction is same.

2. Choose proper and improper fractions from the following fractions:

(a) $\frac{8}{13}$, (b) $\frac{13}{17}$, (d) $\frac{9}{23}$

Proper, since numerator is smaller than denominator

3. Choose the unit fractions from the fractions:

(a) $\frac{1}{9}$, (b) $\frac{1}{6}$, (c) $\frac{1}{19}$

Since numerator is 1.

Assessment Time 6.4

1. Write four equivalent fractions to each of the following fractions:

a. $\frac{2}{3} = \frac{4}{6}, \frac{6}{9}, \frac{8}{12}, \frac{10}{15}$

b. $\frac{4}{7} = \frac{8}{14}, \frac{12}{21}, \frac{16}{28}, \frac{20}{35}$

c. $\frac{5}{8} = \frac{10}{16}, \frac{15}{24}, \frac{20}{32}, \frac{25}{40}$

d. $\frac{5}{13} = \frac{10}{26}, \frac{15}{39}, \frac{20}{52}, \frac{25}{65}$

2. Fill in the boxes:

a. $\frac{5}{8} = \frac{25}{\boxed{x}}$

$\Rightarrow 5 \times x = 25 \times 8$

$\Rightarrow x = \frac{25 \times 8}{5}$

$\Rightarrow x = 40$

b. $\frac{7}{8} = \frac{28}{\boxed{x}}$

$\Rightarrow 7 \times x = 28 \times 8$

$\Rightarrow x = \frac{28 \times 8}{7}$

$\Rightarrow x = 32$

$$\text{c. } \frac{5}{17} = \frac{35}{\boxed{x}}$$

$$\Rightarrow 5 \times x = 35 \times 17$$

$$\Rightarrow x = \frac{35 \times 17}{5}$$

$$\Rightarrow x = 119$$

$$\text{d. } \frac{9}{11} = \frac{\boxed{x}}{55}$$

$$\Rightarrow 11 \times x = 9 \times 55$$

$$\Rightarrow x = \frac{9 \times 55}{11}$$

$$\Rightarrow x = 45$$

3. Fill in the boxes with '>', '<' or '=':

$$\text{a. } \frac{7}{13} \boxed{=} \frac{7}{13} \quad (\because 7 = 7)$$

$$\text{b. } \frac{9}{23} \boxed{<} \frac{16}{23} \quad (\because 9 < 16)$$

$$\text{c. } \frac{8}{11} \boxed{>} \frac{6}{11} \quad (\because 8 > 6)$$

$$\text{d. } \frac{5}{7} \boxed{>} \frac{2}{7} \quad (\because 5 > 2)$$

Assessment Time 6.5

1. Add the following:

$$\text{a. } \frac{4}{7} + \frac{2}{7} = \frac{4+2}{7} = \frac{6}{7}$$

$$\text{b. } \frac{5}{11} + \frac{4}{11} = \frac{5+4}{11} = \frac{9}{11}$$

$$\text{c. } \frac{2}{10} + \frac{1}{10} + \frac{3}{10} = \frac{2+1+3}{10} = \frac{6}{10} = \frac{3}{5}$$

$$\text{d. } \frac{6}{17} + \frac{4}{17} + \frac{5}{17} = \frac{6+4+5}{17} = \frac{15}{17}$$

2. Subtracting the following:

$$\text{a. } \frac{9}{11} - \frac{8}{11} = \frac{9-8}{11} = \frac{1}{11}$$

$$\text{b. } \frac{5}{7} - \frac{3}{7} = \frac{5-3}{7} = \frac{2}{7}$$

$$\text{c. } \frac{8}{9} - \frac{5}{9} = \frac{8-5}{9} = \frac{3}{9} = \frac{1}{3}$$

$$\text{d. } \frac{8}{17} - \frac{4}{17} = \frac{8-4}{17} = \frac{4}{17}$$

3. Simplify the following:

$$\text{a. } \frac{17}{33} + \frac{8}{33} - \frac{15}{33} = \frac{17+8-15}{33} = \frac{25-15}{33} = \frac{10}{33}$$

$$\text{b. } \frac{5}{18} + \frac{8}{18} - \frac{7}{18} = \frac{5+8-7}{18} = \frac{13-7}{18} = \frac{6}{18} = \frac{1}{3}$$

$$c. \frac{6}{17} + \frac{8}{17} - \frac{7}{17} = \frac{6+8-7}{17} = \frac{14-7}{17} = \frac{7}{17}$$

$$d. \frac{5}{19} + \frac{2}{18} - \frac{3}{19} = \frac{5+2-3}{19} = \frac{7-3}{19} = \frac{4}{19}$$

4. Write '+' or '-' sign in the boxes to make them true:

$$a. \frac{8}{17} \boxed{+} \frac{5}{17} = \frac{13}{17}$$

$$b. \frac{16}{23} \boxed{-} \frac{15}{23} = \frac{1}{23}$$

$$c. \frac{9}{21} \boxed{+} \frac{2}{21} = \frac{11}{21}$$

$$d. \frac{5}{6} \boxed{-} \frac{3}{6} = \frac{2}{6}$$

Assessment Time 6.6

1. Shazia took part of a cake = $\frac{3}{8}$

His brother took part of a cake = $\frac{2}{8}$

$$\text{Total part they both take} = \frac{3}{8} + \frac{2}{8} = \frac{3+2}{8} = \frac{5}{8}$$

Hence, $\frac{5}{8}$ part of cake both of them take.

2. Deepika ate part of samosa = $\frac{2}{5}$

Total samosa is considered = 1

$$\begin{aligned} \text{Part of samosa left} &= 1 - \frac{2}{5} \\ &= \frac{5-2}{5} = \frac{3}{5} \end{aligned}$$

$\frac{3}{5}$ part of samosa was left.

3. Number of pens a box contain = 10

Magha use pen = 4

$$\text{The fraction of pen used by Megha} = \frac{4}{10} = \frac{2}{5}$$

The fraction of pens is used by Megha is $\frac{2}{5}$.

4. Monu takes apples from a basket = $\frac{3}{8}$

Tinu takes apples from a basket = $\frac{1}{8}$

$$\text{Total apples taken by them} = \frac{3}{8} + \frac{1}{8} = \frac{3+1}{8} = \frac{4}{8} = \frac{1}{2}$$

Hence, the fraction of the apples they take from the basket is $\frac{1}{2}$.

5. Water in the container is considered as 1.

$$\text{Water used for drinking} = \frac{1}{5}$$

$$\text{Water used for bathing} = \frac{3}{5}$$

$$\begin{aligned}\text{Fraction of water left} &= 1 - \left(\frac{1}{5} + \frac{3}{5} \right) \\ &= 1 - \left(\frac{1+3}{5} \right) = 1 - \frac{4}{5} \\ &= \frac{5-4}{5} = \frac{1}{5}\end{aligned}$$

Hence, $\frac{1}{5}$ of water left in the container.

6. Total work is considered as 1

$$\text{Mona completed her work in the morning} = \frac{3}{8}$$

$$\text{Mona completed her work in the afternoon} = \frac{2}{8}$$

$$\begin{aligned}\text{Work left} &= 1 - \left(\frac{3}{8} + \frac{2}{8} \right) \\ &= 1 - \left(\frac{3+2}{8} \right) = 1 - \frac{5}{8} \\ &= \frac{8-5}{8} = \frac{3}{8}\end{aligned}$$

$\frac{3}{8}$ work was left.

7. Total work is considered as 1.

$$\text{Work completed} = \frac{3}{5}$$

$$\text{Work left} = 1 - \frac{3}{5} = \frac{5-3}{5} = \frac{2}{5}$$

$\frac{2}{5}$ work was left.

SEL Total chocolates = 9

Given chocolates = 4

So, given fraction = $\frac{4}{9}$

$$\text{Left fraction} = 1 - \frac{4}{9} = \frac{9-4}{9} = \frac{5}{9}$$

Critical Thinking Skills

- a. Yellow to rainbow colours = $\frac{1}{7}$
b. $\frac{3}{7}$

Mental Maths

- Write the numerator in each box to make a complete whole.
a. $\frac{3}{3}$ b. $\frac{12}{12}$ c. $\frac{15}{15}$ d. $\frac{7}{7}$
- Write the denominator in each box to make them improper fractions.
a. $\frac{3}{2}$ b. $\frac{7}{6}$ c. $\frac{9}{7}$ d. $\frac{15}{11}$
- Put '+' or '-' sign in the boxes to them true.
a. $\frac{7}{8} \boxed{-} \frac{2}{8} = \frac{5}{8}$ b. $\frac{17}{33} \boxed{+} \frac{2}{33} = \frac{19}{33}$
- Four equivalent fractions to $\frac{5}{8}$ are
 $\frac{10}{16}$, $\frac{15}{24}$, $\frac{20}{32}$, $\frac{25}{40}$
- $\frac{7}{13} + \frac{5}{13} - \frac{4}{13} = \frac{7+5-4}{13} = \frac{8}{13}$

Multiple Choice Questions

Tick (✓) the correct option:

1. (b) 2. (b) 3. (d) 4. (d) 5. (b)

7. MEASUREMENT

Assessment Time 7.1

- Convert each of the following into m:
a. 7 km = 7000 m b. 9 km = 9000 m
- Convert each of the following into cm:
a. 18 m = 1800 cm b. 37 m = 3700 cm
- Convert each of the following into mm:
a. 4 m 15 cm = 4150 mm b. 7 m 18 cm = 7180 mm

4. Convert each of the following into km and m:

a. Since, 1 km = 1000 m

$$\begin{aligned}\text{So, } 3850 \text{ m} &= (3 \times 1000 + 850) \text{ m} \\ &= \mathbf{3 \text{ km } 850 \text{ m}}\end{aligned}$$

b. $5796 \text{ m} = (5 \times 1000 + 796) \text{ m}$
 $= \mathbf{5 \text{ km } 796 \text{ m}}$

5. Convert each of the following into m and cm:

a. Since, 1 m = 100 cm

$$\begin{aligned}\text{So, } 579 \text{ cm} &= (5 \times 100 + 79) \text{ cm} \\ &= \mathbf{5 \text{ m } 79 \text{ cm}}\end{aligned}$$

b. $459 \text{ cm} = (4 \times 100 + 59) \text{ cm} = \mathbf{4 \text{ m } 59 \text{ cm}}$

Assessment Time 7.2

1. Add the following with conversion:

a.

	m	cm
	1	
	25	42
+	23	84
	49	26

b.

	m	cm
	11	1
	38	63
+	46	89
	85	52

c.

	km	m
	1	1
	83	50
+	58	67
	14	217

d.

	km	m
	11	
	16	830
+	24	645
	41	475

2. Add the following:

a.

	m	cm
	11	1
	32	47
+	59	75
	92	22

b.

	m	cm
	11	
	59	62
+	84	56
	144	18

c.

	m	cm
	11	1
	48	96
+	57	69
	106	65

d.

	m	cm
	111	1
	182	68
+	257	34
	440	02

e.

	m	cm
	111	1
	429	67
+	183	39
	613	06

f.

	m	cm
	111	1
	159	78
+	465	97
	625	75

3. Add the following:

a.

	km	m
	1	1
	84	327
+	16	428
	100	755

b.

	km	m
	1	11
	37	476
+	67	234
	104	710

c.

	km	m
	1	11
	57	625
+	68	179
	125	804

d.

	km	m
	11	1
	497	286
+	259	308
	756	594

e.

	km	m
	1	11
	309	068
+	257	149
	566	217

f.

	km	m
	11	1
	337	895
+	423	174
	761	069

4. Subtract the following:

a.

	m	cm
	5	12
	4	14
	6 2	5 4
-	54	37
	08	17

b.

	m	cm
	3	11
	5	17
	4 1	6 7
-	28	39
	13	28

c.

	m	cm
	5	14
	14	12
	4 6	5 2
-	13	75
	32	77

d.

	m	cm
	3	11
	12	11
	15	15
	4 23	2 5
-	269	56
	153	69

e.

	m	cm
	6	12
	5	17
	3 72	5 7
-	169	34
	203	23

f.

	m	cm
	5	10
	2	12
	2 60	3 2
-	148	25
	112	07

5. Subtract the following:

a.

	km	m
	4	13
	53	288
-	15	176
	38	112

b.

	km	m
	6	15
	75	947
-	68	947
	07	000

c.

	km	m
	7	13
	11	11
	8 4	1 69
-	28	426
	55	743

d.

	km	m
	5	10
	13	11
	13	13
	6 14	2 36
-	158	253
	455	983

e.

	km	m
	4	11
	13	7
	15	15
	5 23	2 85
-	328	149
	195	136

f.

	km	m
	1	9
	10	5
	11	11
	2 00	6 19
-	148	376
	052	243

Assessment Time 7.3**1. Convert each of the following in mg:**

- a. 5 g = **5000** mg b. 8 g = **8000** mg
 c. 8 g 856 mg = **8856** mg d. 5 g 386 mg = **5386** mg

2. Convert each of the following into g:

- a. 3 kg = **3000** g b. 7 kg = **7000** g
 c. 8 kg 530 g = **8530** g d. 9 kg 685 g = **9685** g

3. Convert each of the following into g and mg:

- a. Since, 1 g = 1000 mg
 So, 4428 mg = $(4 \times 1000 + 428)$ mg
 = **4 g 428** mg
 b. 9789 mg = $(9 \times 1000 + 789)$ mg
 = **9 g 789** mg
 c. 3096 mg = $(3 \times 1000 + 96)$ mg
 = **3 g 96** mg
 d. 6729 mg = $(6 \times 1000) + 729$ mg
 = **6 g 729** mg

4. Convert each of the following into kg and g:

- a. Since, 1 kg = 1000 g
 6589 g = $(6 \times 1000 + 589)$ g
 = **6 kg 589** g
 b. 7287 g = $(7 \times 1000 + 287)$ g
 = **7 kg 287** g
 c. 9126 g = $(9 \times 1000 + 126)$ g
 = **9 kg 126** g
 d. 8708 g = $(8 \times 1000 + 708)$ g = **8 kg 708** g

Assessment Time 7.4**1. Add the following:**

a.

	g	mg
	1	1 1
	63	298
+	28	365
	91	663

b.

	g	mg
	1	1 1
	57	266
+	26	156
	83	422

c.

	g	mg
	1	1 1
	36	177
+	54	289
	90	466

2. Add the following:

a.

	kg		g	
	1	1	1	
	4	7	6	3
+	1	8	9	3
	6	6	5	7

b.

	kg		g	
	1	1	1	
	5	3	2	5
+	3	8	9	1
	9	2	1	7

c.

	kg		g	
	1	1	1	
	4	8	5	6
+	3	6	1	8
	8	4	7	5

3. Subtract the following:

a.

	g		mg	
	4	16	11	9
	5	7	2	0
-	2	8	5	7
	2	8	6	2

b.

	g		mg	
	6	12	2	12
	7	2	3	2
-	5	7	1	6
	1	5	1	6

c.

	g		mg	
	5	10	5	12
	6	0	6	2
-	3	6	1	9
	2	4	4	3

d.

	g		mg	
	8	13	8	15
	9	9	3	9
-	5	7	8	1
	4	1	5	2

e.

	g		mg	
	3	9	13	7
	4	0	3	2
-	3	8	5	1
	0	1	8	1

f.

	g		mg	
	2	11	15	5
	3	2	5	6
-	1	8	6	3
	1	3	9	0

4. Subtract the following:

a.

	kg		g	
	6	13	1	18
	7	3	2	9
-	4	7	1	9
	2	6	0	9

b.

	kg		g	
	7	15	8	13
	8	5	6	9
-	5	8	1	7
	2	7	5	1

c.

	kg		g	
	3	16	1	15
	4	6	2	5
-	1	7	1	6
	2	9	0	9

d.

	kg		g	
	6	9	11	13
	7	0	2	4
-	5	7	9	6
	1	2	2	7

e.

	kg		g	
	4	9	10	
	5	0	0	3
-	2	6	5	1
	2	3	5	2

f.

	kg		g	
	3	11	14	10
	4	2	5	1
-	1	8	9	3
	2	3	5	7

Assessment Time 7.5

1. Convert each of the following into L:

a. 4 kL = 4000 L

b. 9 kL = 9000 L

2. Convert each of the following into mL:

a. 7 L = 7000 mL

b. 5 L = 5000 mL

3. Convert each of the following into kL and L:

a. Since, 1 kL = 1000 L

$$\text{So, } 6895 \text{ L} = (6 \times 1000 + 895) \text{ L} \\ = \mathbf{6 \text{ kL } 895 \text{ L}}$$

$$\text{b. } 9399 \text{ L} = (9 \times 1000 + 399) \text{ L} \\ = \mathbf{9 \text{ kL } 399 \text{ L}}$$

$$\text{c. } 8059 \text{ L} = (8 \times 1000 + 59) \text{ L} \\ = \mathbf{8 \text{ kL } 059 \text{ L}}$$

$$\text{d. } 7608 \text{ L} = (7 \times 1000 + 608) \text{ L} \\ = \mathbf{7 \text{ kL } 608 \text{ L}}$$

4. Convert each of the following into L and mL:

a. Since, 1 L = 1000 mL

$$5968 \text{ mL} = (5 \times 1000 + 968) \text{ mL} \\ = \mathbf{5 \text{ L } 968 \text{ mL}}$$

$$\text{b. } 6188 \text{ mL} = (6 \times 1000 + 188) \text{ mL} \\ = \mathbf{6 \text{ L } 188 \text{ mL}}$$

$$\text{c. } 8099 \text{ mL} = (8 \times 1000 + 99) \text{ mL} \\ = \mathbf{8 \text{ L } 99 \text{ mL}}$$

$$\text{d. } 9732 \text{ mL} = (9 \times 1000 + 732) \text{ mL} \\ = \mathbf{9 \text{ L } 732 \text{ mL}}$$

Assessment Time 7.6**1. Add the following:**

a.

	L			mL		
	1	1	1			
	3	1	7	9	3	
+	6	8	8	1	6	
	1	0	0	6	0	9

b.

	L		mL	
	1		1	1
	5	5	0	9
+	2	7	6	3
	8	2	7	3

c.

	L		mL		
	1			1	
	3	8	5	3	9
+	6	3	1	4	6
	1	0	1	6	5

2. Add the following:

a.

	kL		L	
	1	1	1	1
	4	5	3	9
+	3	9	6	8
	8	5	0	8

b.

	kL		L	
	1		1	1
	7	5	2	9
+	8	8	1	7
	1	6	3	7

c.

	kL		L	
	1			1
	4	8	3	2
+	2	7	4	2
	7	5	7	5

3. Subtract the following:

a.

	L		mL	
			1	16
	6	8	2	69
-	3	2	1	77
	3	6	0	92

b.

	L		mL	
	6	14	13	
	7	5	3	29
-	3	9	6	18
	3	5	7	11

c.

	L		mL	
	3	12		
	4	2	9	16
-	2	8	8	03
	1	4	1	13

4. Subtract the following:

a.

	kL		L	
	5	10	10	
	6	1	0	99
-	2	8	1	34
	3	2	9	65

b.

	kL		L	
			2	11
	6	8	3	15
-	3	4	2	83
	3	4	0	32

c.

	kL		L	
			4	13
	3	9	5	39
-	1	4	3	84
	2	5	1	55

Assessment Time 7.7

1. Total distance covered = 200 km

Distance covered by Mahesh = 183 kg 650 m

Distance left = 200 km - 183 kg 650 m

= 16 km 350 m

	km		m	
	1	9	9	10
	2	0	0	00
-	1	8	3	650
	1	6	3	50

Hence, the distance left by Mahesh is 16 km 350 m.

2. Length of pole = 10 m 60 cm

Length inside the earth = 2 m 38 cm

Length outside the earth

= 10 m 50 cm - 2 m 38 cm

= 8 m 22 cm

	m		cm	
	0	10	5	10
	1	0	6	0
-	0	2	3	8
	8	2	2	

Hence, the length of the pole outside the earth is 8 m 22 cm.

3. Cloth for making blanket = 50 m 65 cm

Cloth for making sofa cover = 18 m 48 cm

Cloth by in all = 50 m 65 cm + 18 m 48 cm

= 69 m 13 cm

Hence, 69 m 13 cm cloth she buy in all.

	m		cm	
		1		1
	5	0	6	5
+	1	8	4	8
	6	9	1	3

4. Weight of potatoes = 8 kg 500 g

Weight of onions = 4 kg 680 g

Weight of tomatoes = 2 kg 50 g

Total weight of vegetables

$$= 8 \text{ kg } 500 \text{ g} + 4 \text{ kg } 680 \text{ g} + 2 \text{ kg } 50 \text{ g}$$

$$= 15 \text{ kg } 230 \text{ g}$$

	kg		g	
		1	1	
		8	5	0
		4	6	8
+		2	5	0
	1	5	2	3

Hence, the total weight of vegetable is 15 kg 230 g.

5. Weight of gas in cylinder = 30 kg 200 g

Weight of empty cylinder = 14 kg 400 g

Weight of gas = 30 kg 200 g – 14 kg 400 g

$$= 15 \text{ kg } 800 \text{ g}$$

	kg		g	
	2	9	12	
	3	0	2	0
–	1	4	4	0
	1	5	8	0
	4	9	9	10
	3	0	0	0
–	3	6	0	0
	1	3	6	2

6. Capacity of water tank = 500 L

Water tank contain water = 360 L 368 mL

Water tank hold water = 500 L – 360 L 368 mL

$$= 139 \text{ L } 632 \text{ mL}$$

139 L 632 mL more water it can hold.

7. A container contain oil = 25 L 350 mL

Other container has oil = 25 L 153 mL

A container has more oil more oil

$$= 25 \text{ L } 350 \text{ mL} - 25 \text{ L } 153 \text{ mL}$$

$$= 197 \text{ mL}$$

	L		mL	
			2	14
	2	5	3	5
–	2	5	1	5
	0	0	1	9

A container has more oil by 197 mL.

- SDG Total almonds = 20 kg 850 g

He keeps = 1 kg 360 g

Left almonds = 18 kg 490 g

	kg		g	
	1	10	7	15
	2	0	8	5
–	1	3	6	0
	1	9	4	9

Mental Math

- 4 kg = 3200 g + **800** g
- 7 km = 5500 m + **1500** m
- 5 kL = **2200** L + 2800 L
- 14 m = 500 cm + **900** cm
- 16 kg = 12000 g + **4000** g

Multiple Choice Questions

Tick (✓) the correct option:

1. (b)

2. (c)

3. (a)

8 SHAPES AND BASIC GEOMETRICAL CONCEPTS

Assessment Time 8.1

- Write the curved surface and plane surface for each of the following figures:
 - Square
 - Cone
 - Cuboid
 - Sphere
 - Cylindrical
 - Cuboid
- Write the name of three objects from your surroundings that have only plane faces:
 - Book
 - Box
 - Almirah
- Write the name of three objects from your surrounding that have only curved faces:
 - Ball
 - Globe
 - Orange
- Write the name of three objects from your surroundings that have both curved and plane faces:
 - Ice-cream cone
 - Cap
 - Gas Cylinder
- Fill in the blanks:
 - A cuboid has **6** faces and **8** vertices.
 - A cylinder has **3** surfaces and **2** edges.
 - A cone has **2** surfaces and **1** vertex.
 - A sphere has **1** surface.

Assessment Time 8.2

- Fill in the blanks:
 - A ray has one end point.
 - A line-segment has **fixed** length.
 - Open figure has **different** starting and end points.
 - Closed figure has **same** starting and end points.
- Identify the open and closed figures:
Open figure → (a), (d), (f), (g)
Closed figure → (b), (c), (e), (h)
- Draw line segment by joining the given points: (Do Yourself)
- Name the line segments in each of these figures and write the type of line segment straight, vertical and slant:

- | | | |
|--------------------|-----------------|--------------------|
| a. AB – Straight | b. PQ – slant | c. MN – straight |
| BC – Vertical | QR – straight | NP – vertical |
| CD – Straight | PR – slant | PQ – straight |
| DA – Vertical | | MQ – vertical |

Assessment Time 8.3 (Do Yourself)

Assessment Time 8.4

- Identify the following shapes:

a. Camel	b. Duck	c. Horse
e. Man	f. Dog	g. Snake
- Using pieces of tangram. Draw the following shapes:
(Do Yourself)

Mental Maths

- Opposite faces of **cuboid** are identical.
- All faces of **cube** are identical.
- Opposite faces of a cylinder are **same**.
- A **cone** has 1 curved and 1 plane surface.
- The shape of the globe like a **sphere**.

Multiple Choice Questions

Tick (✓) the correct option:

- | | | | | |
|--------|--------|--------|--------|--------|
| 1. (b) | 2. (a) | 3. (c) | 4. (c) | 5. (c) |
|--------|--------|--------|--------|--------|

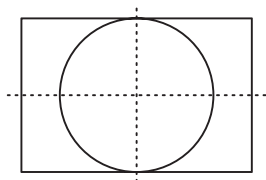
9. PATTERNS

Assessment Time 9.1

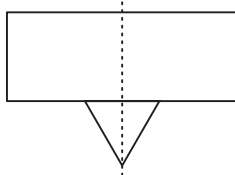
- Write 'Yes' or 'No' for symmetrical figures about dotted line:

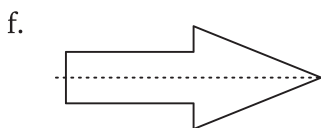
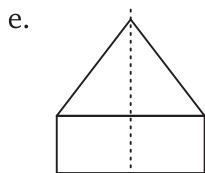
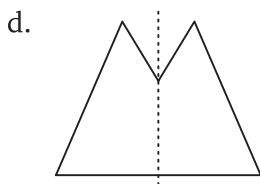
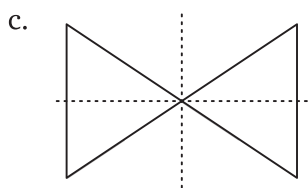
a. Yes	b. Yes	c. No
d. yes	e. No	f. Yes
- Draw the lines of symmetry for the following figures:

a.

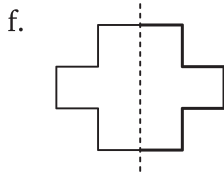
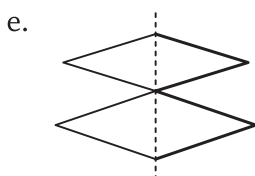
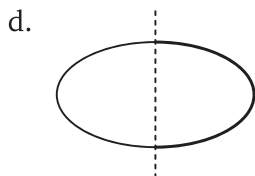
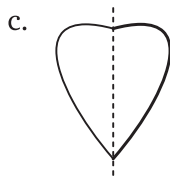
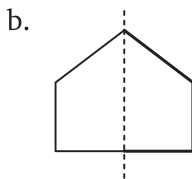
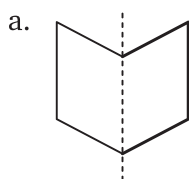


b.



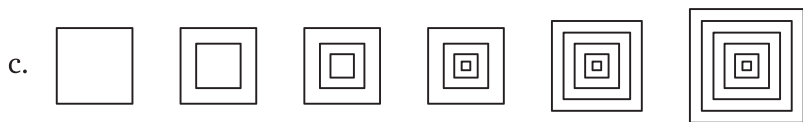


3. Draw the other halves to make symmetrical shapes:



Assessment Time 9.2

1. Complete the following patterns:



Assessment Time 9.3

1. Look the pattern of the following series and write the next 4 terms of each series:
- a. 90, 80, 70, 60, 50, 40, 30 b. 2, 4, 8, 16, 32, 64, 128
- c. 5, 8, 11, 14, 17, 20, 23 d. 2, 4, 6, 8, 10, 12, 14

Mental Maths

1. 3, 5, 7, 9, 11, 13, 15, 17
2. AZ BY CX DW, EV, FU, GT
3. 
4. 
5. 15, 13, 11, 9, 7, 5, 3, 1

10 MONEY**Assessment Time 10.1**

1. Write the following amounts in words:
- a. ₹ 24.65 = Twenty-four rupees sixty-five paise
- b. ₹ 33.92 = Thirty-three rupees ninety-two paise
- c. ₹ 68.63 = Sixty-eight rupees sixty-three paise
- d. ₹ 89.06 = Eighty-nine rupees six paise
2. Write the following amounts in figures:
- a. 8 rupees 63 paise = ₹ 8.63
- b. 29 rupees 74 paise = ₹ 29.74
- c. 38 rupees 6 paise = ₹ 38.06
- d. 73 rupees 84 paise = ₹ 73.84
3. Convert the following rupees into paise:
- a. ₹ 18.65 = 1865 paise b. ₹ 22.37 = 2237 paise
- c. ₹ 59.75 = 5975 paise d. ₹ 84.54 = 8454 paise
4. Convert the following paise into rupees:
- a. 526 paise = ₹ 5.26 b. 765 paise = ₹ 7.65
- c. 6265 paise = ₹ 62.65 d. 8975 paise = ₹ 89.75

Assessment Time 10.2

1. Add the following:

a.

	₹	p
	1 1 1	
	68 38	
+	58 64	
	127 02	

b.

	₹	p
	1 1 1	
	86 34	
+	54 78	
	141 12	

c.

	₹	p
	1 1 1	
	36 67	
+	49 58	
	86 25	

d.

	₹	p
	1 1 1 1	
	423 87	
+	289 65	
	713 52	

e.

	₹	p
	1 1 1	
	643 73	
+	285 67	
	929 40	

f.

	₹	p
	1 1 1 1	
	229 69	
+	285 47	
	515 16	

2. Subtract the following:

a.

	₹	p
	4 13 11 14	
	54 24	
-	36 59	
	17 65	

b.

	₹	p
	6 12 6 10	
	72 70	
-	45 68	
	27 02	

c.

	₹	p
		5 13
	49 63	
-	28 54	
	21 09	

d.

	₹	p
	2 11 16	
	326 53	
-	289 23	
	037 30	

e.

	₹	p
	4 9 9 9 10	
	500 00	
-	283 54	
	216 46	

f.

	₹	p
	3 9 12 12	
	403 27	
-	285 43	
	117 84	

Assessment Time 10.3

1. Multiply the following:

a.

	₹	p
	3 1 4	
	37 28	
×		5
	186 40	

b.

	₹	p
	3 2 1	
	49 63	
×		4
	198 52	

c.

	₹	p
	5 3 2	
	69 54	
×		6
	417 24	

d.

	₹	p
	5 2 3	
	78 35	
×		7
	548 45	

e.

	₹	p
	8 1 2	
	89 13	
×		9
	802 17	

f.

	₹	p
	4 7 5	
	65 97	
×		8
	527 76	

2. Divide the following:

a. ₹ 76.83 ÷ 3 Since, ₹ 1 = 100 paise

$$₹ 76.83 = (76.83 \times 100) \text{ paise}$$

$$= 7683 \text{ paise}$$

$$\text{Now, } = (7683 \div 3) \text{ paise}$$

$$= 2561 \text{ paise}$$

$$\text{So, } 2561 \text{ paise} = ₹ 25.61$$

$$\text{Hence, } ₹ 76.83 \div 3 = 25.61$$

a. ₹ 76.83 ÷ 3

$$\begin{array}{r} 2561 \\ 3 \overline{) 7683} \\ \underline{-6} \\ 16 \\ \underline{-15} \\ 18 \\ \underline{-18} \\ 03 \\ \underline{-3} \\ 0 \end{array}$$

$$\text{So, } ₹ 76.83 \div 3 = ₹ 25.61$$

b. ₹ 65.65 ÷ 5

$$\begin{array}{r} 1313 \\ 5 \overline{) 6565} \\ \underline{-5} \\ 15 \\ \underline{-15} \\ 06 \\ \underline{-6} \\ 15 \\ \underline{-15} \\ 0 \end{array}$$

$$\text{So, } ₹ 65.65 \div 5 = ₹ 13.13$$

c. ₹ 454.64 ÷ 2

$$\begin{array}{r} 22732 \\ 2 \overline{) 45464} \\ \underline{-4} \downarrow \\ 05 \downarrow \\ \underline{-4} \downarrow \\ 14 \downarrow \\ \underline{-14} \downarrow \\ 06 \downarrow \\ \underline{-6} \downarrow \\ 04 \\ \underline{-4} \\ 0 \end{array}$$

$$\text{So, } ₹ 454.64 \div 2 = ₹ 227.32$$

d. ₹ 552.44 ÷ 4

$$\begin{array}{r} 13811 \\ 4 \overline{) 55244} \\ \underline{-4} \downarrow \\ 15 \downarrow \\ \underline{-12} \downarrow \\ 32 \downarrow \\ \underline{-32} \downarrow \\ 04 \downarrow \\ \underline{-4} \downarrow \\ 04 \\ \underline{-4} \\ 0 \end{array}$$

$$\text{So, } ₹ 552.44 \div 4 = ₹ 138.11$$

e. ₹ 766.80 ÷ 8

$$\begin{array}{r}
 9585 \\
 8 \overline{) 76680} \\
 \underline{-72} \downarrow \downarrow \\
 46 \downarrow \downarrow \\
 \underline{-40} \downarrow \downarrow \\
 68 \downarrow \downarrow \\
 \underline{-64} \downarrow \downarrow \\
 40 \downarrow \downarrow \\
 \underline{-40} \downarrow \downarrow \\
 0
 \end{array}$$

f. ₹ 729.81 ÷ 9

$$\begin{array}{r}
 8109 \\
 9 \overline{) 72981} \\
 \underline{-72} \downarrow \downarrow \\
 09 \downarrow \downarrow \\
 \underline{-9} \downarrow \downarrow \\
 08 \downarrow \downarrow \\
 \underline{-0} \downarrow \downarrow \\
 81 \downarrow \downarrow \\
 \underline{-81} \downarrow \downarrow \\
 0
 \end{array}$$

So, ₹ 766.80 ÷ 8 = ₹ 95.85

So, ₹ 729.81 ÷ 9 = ₹ 81.09

Assessment Time 10.4

1. The cost of 8 pens = ₹ 449.84

$$\begin{aligned}
 \text{So, the cost of 1 pen} &= ₹ (449.84 \div 8) \\
 &= 44984 \div 8 \text{ paise} \\
 &= 5623 \text{ paise} \\
 &= ₹ (5623 \div 100) \\
 &= 56.23
 \end{aligned}$$

$$\begin{array}{r}
 5623 \\
 8 \overline{) 44984} \\
 \underline{-40} \downarrow \downarrow \\
 49 \downarrow \downarrow \\
 \underline{-48} \downarrow \downarrow \\
 18 \downarrow \downarrow \\
 \underline{-16} \downarrow \downarrow \\
 24 \downarrow \downarrow \\
 \underline{-24} \downarrow \downarrow \\
 0
 \end{array}$$

2. The bag is costlier by

$$\begin{aligned}
 &= ₹ 95.68 - 95.65 \\
 &= 9568 \text{ paise} - 9365 \text{ paise} \\
 &= 3 \text{ paise}
 \end{aligned}$$

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

3. The cost of 1 pencil box = ₹ 258.85

$$\begin{aligned}
 \text{The cost of 8 pencil box} &= ₹ 258.85 \times 8 \\
 &= 12069.20
 \end{aligned}$$

Hence, the cost of 8 pencil box is ₹ 2072.80

	₹	p
	4764	
	25885	
×		8
	207080	

4. Cost of a shirt = ₹ 2385.65

Cos of jeans = ₹ 2599.99

Total cost = ₹ (2385.65 + 2599.99)

= ₹ 4985.64

Hence, the total cost is ₹ 4985.64.

5. Cost of a kg of rice = ₹ 68.95

Cost of 7 kg of rice = ₹ 68.95 × 7 = ₹ 482.95

	₹	p
	6	63
	68	95
×		7
	482	65

	₹	p
	0	999910
	10000	000
-	482	95
	517	05

	₹	p
	1	111
	2385	65
+	2599	99
	4985	64

Money he will get back = ₹ (1000 - 482.95) = ₹ 517.05

Hence, he will get back ₹ 517.05.

6. Cost of a book = ₹ 200

Total money Tanu have = ₹ 185.50

Money needed to buy book = ₹ (200 - 185.50)

= ₹ 14.50

Hence, ₹ 14.50 is needed to buy book.

	₹	p
	1	9910
	200	00
-	185	50
	014	50

SDG Mr. Sharma earns = ₹ 12560

He spent on food = ₹ 3345

He spent on rent = ₹ 2868

Left money = ₹ {12560 - (3345 + 2868)} = ₹ 6347

	Th	H	T	O
	12		5	10
	12	5	6	0
-	6	2	1	3
	6	3	4	7

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

He denotes = ₹ 6347 ÷ 2 = ₹ 3173.50

Mental Maths

1. ₹ 23.67 = **2367** paise

2. ₹ 28.96 = **2896** paise

3. 656 paise = ₹ **6.56**

4. 7196 paise = ₹ **71.96**

5. ₹ 300 + ₹ 200 = ₹ **500**

Multiple Choice Questions

Tick (✓) the correct option:

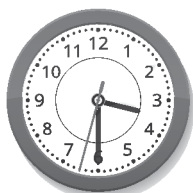
1. (c) 2. (c) 3. (b) 4. (b) 5. (a)

11. TIME AND CALENDAR

Assessment Time 11.1

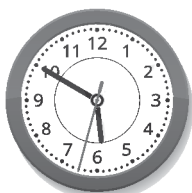
1. Read and write the time shown in the following clocks in figures and words:

a.



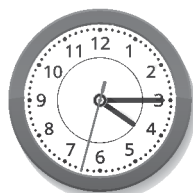
3:30

b.



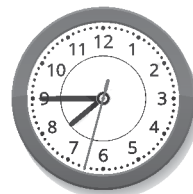
5:50

c.



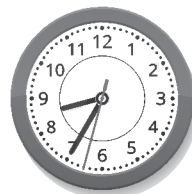
4:15

d.



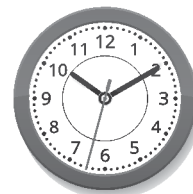
7:45

e.



8:35

f.



10:10

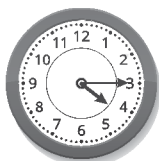
2. Draw the hands of clock on the clock face of the given time:

a.



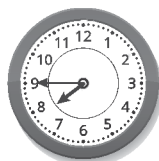
Half past 6

b.



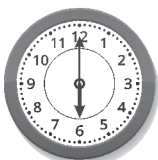
Quarter past 4

c.



Quarter to 8

d.



6 o'clock

e.



10 minutes past 3

f.



25 minutes to 9

3. How many minutes have passed if the minute hand has moved from:

- | | |
|-------------------------|------------------------|
| a. 12 to 3 → 15 minutes | b. 1 to 5 → 25 minutes |
| c. 3 to 8 → 25 minutes | d. 6 to 8 → 10 minutes |
| e. 2 to 9 → 35 minutes | f. 5 to 8 → 15 minutes |

Assessment Time 11.2

1. Write the time using a.m. or p.m. for the following:

- 6 o'clock in the morning **a.m.**
- 10 o'clock in the night **p.m.**
- 4 : 10 in the noon **p.m.**
- 6 : 30 in the morning **a.m.**
- 6 o'clock clock in the evening **p.m.**
- 2 : 40 in the night **a.m.**

2. Using a.m. or p.m., write the time:

- 3 hours before 8 p.m. → **p.m.**
- 3 hours after 10:30 a.m. → **p.m.**
- 4 hours before 3:30 p.m. → **a.m.**
- 6 hours after 3:30 p.m. → **p.m.**
- 5 hours before 4 p.m. → **a.m.**
- 4 hours after 11:30 p.m. → **a.m.**

3. Write the number of hours between:

- | | |
|---------------------------------|----------------------------------|
| a. 9 a.m. to 1 p.m. → 4 | b. 6 a.m. to 10 p.m. → 16 |
| c. 10 a.m. to 4 p.m. → 6 | d. 5 a.m. to 8 p.m. → 15 |
| e. 6 a.m. to 1 p.m. → 7 | f. 7 p.m. to 11 p.m. → 4 |

4. Tick (✓) the correct time for each of the following:

- | | |
|---|--------------------------------------|
| a. The sun rises at 6 a.m. / 6 p.m. | <input type="text" value="6 a.m."/> |
| b. You go to school at 8 a.m. / 8 p.m. | <input type="text" value="8 a.m."/> |
| c. You go to play at 4 a.m. / 4 p.m. | <input type="text" value="4 p.m."/> |
| d. You take your dinner at 8 a.m. / 8 p.m. | <input type="text" value="8 p.m."/> |
| e. You go to bed at 10 a.m. / 10 p.m. | <input type="text" value="10 p.m."/> |
| f. The sun sets at 7 a.m./ 7 p.m. | <input type="text" value="7 p.m."/> |

Assessment Time 11.3**1. Convert the following into hours:**

- a. 5 days

Since, 1 day = 24 hours

$$\therefore 5 \text{ days} = (5 \times 24) = 120 \text{ hours}$$

- b. 22 days

Since, 1 day = 24 hours

$$\therefore 22 \text{ days} = (22 \times 24) \text{ hours} = 528 \text{ hours}$$

- c. 5 days 16 hours =
- (5×24)
- hours + 16 hours

$$= (120 + 16) \text{ hours}$$

$$= 136 \text{ hours}$$

- d. 6 days 23 hours =
- (6×24)
- hours + 23 hours

$$= (144 + 23) \text{ hours}$$

$$= 167 \text{ hours}$$

- e. 13 days 18 hours =
- (13×24)
- hours + 18 hours

$$= (312 + 18) \text{ hours}$$

$$= 330 \text{ hours}$$

- f. 25 days 16 hours =
- (25×24)
- hours + 16 hours

$$= (600 + 16) \text{ hours}$$

$$= 616 \text{ hours}$$

2. Convert the following into minutes:

- a. 8 hours

Since 1 hour = 60 minutes

$$\text{So, } 8 \text{ hours} = (8 \times 60) \text{ minutes}$$

$$= 480 \text{ minutes}$$

- b. 15 hours =
- (15×60)
- minutes

$$= 900 \text{ minutes}$$

- c. 14 hours 24 minutes =
- $(14 \times 60 + 24)$
- minutes

$$= 840 + 24 \text{ minutes}$$

$$= 864 \text{ minutes}$$

- d. 16 hours 8 minutes =
- $(16 \times 60 + 8)$
- minutes

$$= 960 + 8 \text{ minutes}$$

$$= 968 \text{ minutes}$$

- e. 17 hours 24 minutes = $(17 \times 60 + 24)$ minutes
 = $1020 + 24$ minutes
 = 1044 minutes
- f. 26 hours 18 minutes = $(26 \times 60 + 18)$ minutes
 = $1560 + 18$ minutes
 = 1578 minutes

3. Convert the following into seconds:

- a. Since 1 minutes = 60 seconds
 So, 13 minutes = (13×60) seconds
 = 780 seconds
- b. 34 minutes = (34×60) seconds
 = 2040 seconds
- c. 18 minutes 9 seconds = $(18 \times 60 + 9)$ seconds
 = $(1080 + 9)$ seconds
 = 1089 seconds
- d. 30 minutes 12 seconds = $(30 \times 60 + 12)$ seconds
 = $(1800 + 12)$ seconds
 = 1812 seconds
- e. 25 minutes 16 seconds = $(25 \times 60 + 16)$ seconds
 = $(1500 + 16)$ seconds
 = 1516 seconds
- f. 43 minutes 28 seconds = $(43 \times 60 + 28)$ seconds
 = $(2580 + 28)$ seconds
 = 2608 seconds

4. Tick (✓) the correct time for each of the following activities:

- a. You sleep for 8 hours/8 minutes. **8 hours**
- b. You take 20 minutes/20 hours to go school. **20 minutes**
- c. You eat your lunch in 15 hours/15 minutes. **15 minutes**
- d. You play with your friend for 50 hours/50 minutes. **50 minutes**
- e. You go to your school for 7 hours/7 minutes. **7 hours**
- f. You take bath for 20 hours/20 minutes. **20 minutes**

Assessment Time 11.4

1. Convert the following into months:

- a. Since 1 year = 12 months
So, 5 years = (5×12) months
= 60 months
- b. 7 years = (7×12) months
= 84 months
- c. 8 years 5 months = $(8 \times 12 + 5)$ months
= $(96 + 5)$ months
= 101 months
- d. 9 years 4 months = $(9 \times 12 + 4)$ months
= $(108 + 4)$ months
= 112 months
- e. 10 years 6 months = $(10 \times 12 + 6)$ months
= $(120 + 6)$ months
= 126 months
- f. 12 years 7 months = $(12 \times 12 + 7)$ months
= $(144 + 7)$ months
= 151 months

2. Convert the following into days:

- a. Since 1 month = 30 days
5 months = (5×30) days
= 150 days
- b. 9 months = (9×30) days
= 270 days
- c. 7 months 5 days = $(7 \times 30 + 5)$
= $(210 + 5)$ days
= 215 days
- d. 8 months 12 days = $(8 \times 30 + 12)$
= $(240 + 12)$ days
= 252 days
- e. 12 months 12 days = $(12 \times 30 + 12)$
= $(360 + 12)$ days = 372 days

f. 14 months 9 days = $(14 \times 30 + 9)$
= $(420 + 9)$ days = 429 days

3. Convert the following into days:

- a. Since 1 week = 7 days
So, 4 weeks = (4×7) days
= 28 days
- b. 9 weeks = (9×7) days = 63 days
- c. 6 weeks 5 days = $(6 \times 7 + 5)$ days
= $(42 + 5)$ days
= 47 days
- d. 7 weeks 3 days = $(7 \times 7 + 3)$ days
= $(49 + 3)$ days
= 52 days
- e. 8 weeks 4 days = $(8 \times 7 + 4)$ days
= $(56 + 4)$ days
= 60 days
- f. 10 weeks 7 days = $(10 \times 7 + 7)$ days
= $(70 + 7)$ days
= 77 days

4. Which of the following years are leap years:

- | | |
|---------------------|---------------------|
| a. 2014 | b. 2006 |
| c. 2008 (Leap year) | d. 1992 (Leap year) |
| e. 1994 | f. 2012 (Leap year) |
| g. 2018 | h. 2024 (Leap year) |

Mental Maths

- 20 minutes past 4 o'clock is written as **4:20**.
- 15 minutes to 5 o'clock is written as **4:45**.
- 4 hours 35 minutes = **275** minutes.
- 2 years 3 months = **27** months.
- I go to play at 5 **p.m.**.

Multiple Choice Questions

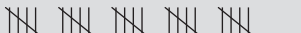
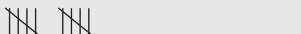
Tick (✓) the correct option:

1. (c) 2. (d) 3. (c) 4. (b) 5. (a)

12 DATA HANDLING (Pictograph)

Assessment Time 12.1

1.

Games	Tally Mark	Number of People
Cricket		28
Football		21
Hockey		25
Badminton		10
Basketball		16

2.

Fruit	Tally Mark	Number of Children
Apple		22
Orange		18
Banana		16
Mango		14

3. a. Daisy b. Lotus c. 18 d. 12

4.

Marks	Tally Mark	Frequency
4		2
5		6
8		4
10		4
15		9
18		3
19		4
20		7

a. 7 b. 3 c. 9 d. 12

Assessment Time 12.2

1. Do Yourself 2. Do Yourself

Model Test Paper-I

1. Tick (✓) the correct option:

- (i) (a) (ii) (a) (iii) (b) (iv) (d) (v) (b)

2. Write the number names for each of the following:

- (a) 576 = Five hundred seventy-six
 (b) 589 = Five hundred eighty-nine
 (c) 678 = Six hundred seventy-eight
 (d) 807 = Eight hundred seven

3. Write the short form for each of the following:

- (a) $500 + 80 + 7 = 587$ (b) $700 + 4 = 704$

4. Round off the following number to the nearest hundreds:

- (a) 668 nearest hundred = **700**
 (b) 4729 nearest hundred = **4700**
 (c) 9143 nearest hundred = **9100**
 (d) 873 nearest hundred = **900**

5. Express each of the following as a Hindu-Arabic Numerals:

- (a) LXVI = 66 (b) XVII = 17
 (c) XLIII = 43 (d) XXVII = 27

6. Fill in the blanks:

- (a) $2539 + 100 = 2639$ (b) $400 + 900 = 1300$
 (c) $6000 + 5000 = 11000$ (d) $7025 + 1000 = 8025$
 (e) $838 + 10 = 848$ (f) $6479 + 1000 = 7479$

7. Solve the following:

- (a) $5436 - 2859 + 4565 - 6728$
 $5436 + 4565 - (2859 + 6728)$

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

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

⇒

TTh	Th	H	T	O
0	9	9	9	11
1	0	0	0	1
-	9	5	8	7
	0	4	1	4

$$(b) 7428 - 3176 - 3054 - 179 = 7428 - (3176 + 3054 + 179)$$

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

	Th	H	T	O
			1	18
	7	4	2	8
-	6	4	0	9
	1	0	1	9

8. Find the missing factor for each of the following:

(a) $63 = 9 \times 7$

(b) $75 = 5 \times 15$

(c) $60 = 6 \times 10$

(d) $38 = 19 \times 2$

9. Find the product:

(a) $28 \times 200 = 5600$

(b) $18 \times 800 = 14400$

(c) $13 \times 600 = 7800$

10. Divide the following by repeated subtraction:

(a) 56 by 8

$$56 - 8 = 48 - 8 = 40 - 8 = 32 - 8 = 24 - 8 = 16 - 8 = 8 - 8 = 0$$

Since, 8 is subtracted 7 times from 56 to get 0.

$$\text{So, } 56 \div 8 = 7$$

(b) 80 by 10

$$80 - 10 = 70 - 10 = 60 - 10 = 50 - 10 = 40 - 10 = 30 - 10 = 20 - 10 = 10 - 10 = 0$$

Since, 10 is subtracted 8 times from 80 to get 0.

$$\text{So, } 80 \div 10 = 8$$

(c) 18 by 9

$$18 - 9 = 9 - 9 = 0$$

Since, 9 is subtracted 2 times from 18 to get 0.

$$\text{So, } 18 \div 9 = 2$$

11. Find the following:

(a) $\frac{1}{3}$ of 18 = $\frac{1}{3} \times 18 = \boxed{6}$ (b) $\frac{1}{5}$ of 55 = $\frac{1}{5} \times 55 = \boxed{11}$

12. Add the following:

(a) $\frac{1}{7} + \frac{2}{7} = \frac{1+2}{7} = \frac{3}{7}$

$$(b) \frac{2}{10} + \frac{1}{10} + \frac{3}{10} = \frac{2+1+3}{10} = \frac{6}{10} = \frac{3}{5}$$

$$(c) \frac{6}{17} + \frac{4}{17} + \frac{5}{17} = \frac{6+4+5}{17} = \frac{15}{17}$$

$$(d) \frac{5}{11} + \frac{4}{11} = \frac{5+4}{11} = \frac{9}{11}$$

13. Number of boys = 364

Number of girls = 249

$$\begin{aligned} \text{Total strength} &= 364 + 249 \\ &= 613 \end{aligned}$$

Hence, the total strength is 613.

14. Number of mangoes in 1 basket = 36

$$\begin{aligned} \text{Number of mangoes in 8 baskets} &= 36 \times 8 \\ &= 288 \end{aligned}$$

Hence, the number of mangoes in 8 such baskets is 288.

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

	H	T	O
		3	6
×			8
	2	8	8

Model Test Paper-II

1. Tick (✓) the correct option:

(i) (c)

(ii) (c)

2. Convert each of the following into m:

(a) 6 km = **6000** m

(b) 7 km = **7000** m

3. Convert the following into m and cm:

a. Since, 1 m = 100 cm

$$\text{So, } 579 \text{ cm} = (5 \times 100 + 79) \text{ cm} = \mathbf{5 \text{ m } 79 \text{ cm}}$$

b. $459 \text{ cm} = (4 \times 100 + 59) \text{ cm} = \mathbf{4 \text{ m } 59 \text{ cm}}$

4. Add the following with conversion:

(a) 8 km 350 m

+ 5 km 867 m

	km	m
	8	350
+	5	867
	14	217

(b) 16 km 830 m

+ 24 km 645 m

	km	m
	16	830
+	24	645
	41	475

5. Fill in the blanks:

- A sphere has **only 1 curve** surface.
- A cone has **2** surfaces and **1** vertex.
- A cuboid has **6** faces and **8** vertices.
- A ray has **one** end point.

6. With the help of ruler and pencil, draw the line segments of the given length:

Do Yourself

7. Look at the pattern of following series and write the next 4 term of each series:

- 90, 80, 70, 60, **50, 40, 30, 20**
- 5, 8, 11, 14, 17, **20, 23, 26**

8. Write the following amount in words:

- ₹ 24.65 → twenty-four rupees and sixty-five paise
- ₹ 33.92 → Thirty-three rupees and ninety-two paise
- ₹ 68.63 → Sixty-eight rupees and sixty-three paise
- ₹ 89.06 → Eighty-nine rupees and six paise

9. Convert the following into hours:

- 22 days (Since, 1 day = 24 hours)
So, 22 days = (22×24) hours = 528 hours
- 5 days 16 hours = $(5 \times 24 + 16)$ hours
= $(120 + 16)$ hours = 136 hours
- 5 days = (5×24) hours = 120 hours

10.

Games	Tally Mark	Number of People
Cricket		28
Football		21
Hockey		25
Basketball		16
Badminton		10

11. Let  represent 5 children

Cartoon	Number of Children
Choota Bheem	
Doremon	
Krishna	
Mighty Raju	

12. Capacity of the tank = 500 L

Water in water tank = 360 L 368 mL

More water can be added = 500 L - 360 L 368 mL
= 139 L 632 mL

Hence, 139 L 632 mL water in can hold.

13. Cost of 8 pens = ₹ 449.84

= (449.84 × 100) paise
= 44984 paise

Cost of 1 pen = (44984 ÷ 8) paise
= 5623 paise

= ₹ (5623 ÷ 100) = ₹ 56.23

The cost of one pen is ₹ 56.23.

	L	mL
	499	999
-	360	368
	139	632

5623	
8)	44984
-40	↓
49	↓
-48	↓
18	↓
-16	↓
24	↓
-24	↓
0	

18. The cost of one geometry box = ₹ 72.58

The cost of 9 geometry boxes = ₹ 72.58 × 9
= ₹ 653.22

Hence, the cost of 9 geometry boxes is ₹ 653.22

	₹	p
	72	58
×		9
	653	22