

Rethink Mathematics-4

Chapter-1 Numbers

Topics	Learning Outcomes	Teaching Learning Activity	Questions on Hots
Numbers beyond 9999 Indian and international system Place value, face value, expanded and standard form, predecessor and successor, comparison of numbers, Ascending and descending order Formation of numbers with the given digits Roman numeration upto 50.	Students will be able to write in Indian and international system. Students will be able to work with numbers compare, find predecessor, successor, place value, face value etc. The students will be able to form digits with and without repetition of digits. The students will be able to write numbers in roman numeration.	Worksheets on Indian and international system to be done Quiz can be conducted on the topics done Cut out cards with digits written on it. Give them the cards and ask them to rearrange and form numbers. Using matchsticks ask the children to form roman numbers	Write 652325 in Indian and international system The predecessor of successor of 2562? 6525 in expanded form. _____ The greatest 4 digit number with 4,5,9,0 45 in roman numeral = _____

Exercise 1.1

1. Write the following numbers in the Indian place value chart. One has been done for you.

	TL	L	TTh	Th	H	T	O
(a)			1	4	6	7	5
(b)		7	0	4	9	1	5
(c)		7	7	7	4	5	9
(d)		4	7	1	0	0	5
(e)			7	6	7	7	9
(f)		3	2	3	4	0	8

2. Write the following numbers in the International place value chart.

	HM	TL	M	HTh	TTh	Th	H	T	O
(a)				2	4	6	4	9	5
(b)					2	4	6	2	0
(c)				5	0	9	1	4	5
(d)					7	6	4	9	5
(e)				1	0	0	0	0	0
(f)					2	3	4	5	6

3. Place commas and write the following numbers in Indian and International System.

(a) 3541

Indian System : 3541, Three thousand five hundred and forty one.

International System : 3541, Three thousand five hundred and forty one.

(b) 86420

Indian System : 86420, Eighty six thousand four hundred twenty.

International System : 86420, Eighty six thousand four hundred twenty.

(c) 495596

Indian System : 495596, Four Lakh ninety five thousand five hundred and ninety six.

International System : 495596, Four hundred and ninety five thousand five hundred and ninety six

(d) 507674

Indian System : 507674, Five lakh seven thousand six hundred and seventy four

International System : 507674, Five hundred and seven thousand six hundred and seventy four.

(e) 994860

Indian System : 994860, Nine lakh ninety four thousand eight hundred and sixty.

International System : 994860, Nine hundred and ninety four thousand eight hundred and sixty

(f) 371246

Indian System : 371246, Three lakh seven one thousand two hundred forty six

International System : 371246, Three hundred and seventy one thousand two hundred and forty six.

4. Write in figures.

(a) 654,423

(b) 56,709

(c) 436,005

(d) 60,709

(e) 8,07,004

5. Write the place value and face value of the underlined digits.

(a) 24802 – Place value of 4 is 4000 and face value is 4

(b) 642597 – Place value of 6 is 600000 and face value is 6

(c) 89005 – Place value of 9 is 9000 and face value is 9

(d) 511496 – Place value of 4 is 400 and face value is 4

(e) 7658 – Place value of 8 is 8 and face value is also 8

6. Find the difference between the place value and face value of 8 in 2842.

Place value = 800 and face value is 8

Difference = 800 – 8

= 792

7. Find the product of the face value of 2 in 245 and place value of 7 in 1742.

Face value of 2 in 245 = 2

Place value of 7 in 1742 = 700

Product = 2 × 700

= 1400

Exercise 1.2

1. Write the following in expanded form.

- (a) $2,46,784 = 2 \times 100000 + 4 \times 10000 + 6 \times 1000 + 7 \times 100 + 8 \times 10 + 4 \times 1$
 $= 200000 + 40000 + 6000 + 700 + 80 + 4$
- (b) $24,864 = 2 \times 10000 + 4 \times 1000 + 8 \times 100 + 6 \times 10 + 4 \times 1$
 $= 20000 + 4000 + 800 + 60 + 4$
- (c) $8,70,495 = 8 \times 100000 + 7 \times 10000 + 0 \times 1000 + 4 \times 100 + 9 \times 10 + 5 \times 1$
 $= 800000 + 70000 + 400 + 90 + 5$
- (d) $1,04,085 = 1 \times 100000 + 0 \times 10000 + 4 \times 1000 + 0 \times 100 + 8 \times 10 + 5 \times 1$
 $= 100000 + 4000 + 80 + 5$
- (e) $5,764 = 5 \times 1000 + 7 \times 100 + 6 \times 10 + 4$
 $= 5000 + 700 + 60 + 4$
- (f) $2,05,000 = 2 \times 100000 + 5 \times 1000 + 0 \times 100 + 0 \times 10 + 0 \times 1$
 $= 200000 + 5000$

2. Give the short form for the following.

- (a) 204305 (b) 56743 (c) 507456

3. Find the successors of the following numbers.

- (a) Successors of 42345 $= 42345 + 1 = 42346$
(b) Successors of 642795 is 642796
(c) Successors of 705800 is 705801
(d) Successors of 406649 is 406650
(e) Successors of 456299 is 456300

4. Find the predecessors of the following numbers.

- (a) Predecessors of 52892 $= 52892 - 1 = 52891$
(b) Predecessors of 345499 is 345498
(c) Predecessors of 42742 is 42741
(d) Predecessors of 742300 is 742299
(e) Predecessors of 125,000 is 124999

5. Find the number whose predecessor is 45,242.

The number whose predecessor is 45242 \rightarrow 45243

6. Find the number whose successor is 15,349.

The number whose successor is 15349 \rightarrow 15348

Exercise 1.3

1. Compare the numbers using $>$, $<$, $=$.

- (a) 24476 54259 (b) 274966 784600
(c) 42358 423580 (d) 64598 84677
(e) 281977 28197

5. Write the standard form for the following.
 (a) 43060 (b) 800600
6. Find the greatest number formed by using digits 3, 0, 8, 1 and 6.
 Greatest number using 3, 0, 8, 1 and 6 = 86310
7. Write the least 5 digit number that can be formed by using digits 6, 5, 0, 2, 7.
 Least 5 digit number using 6, 5, 0, 2, 7 = 20667
8. Arrange in ascending order : 45353; 53535; 43355; 455553; 53335.
 43355, 45353, 5335, 53535, 45553
9. Arrange in descending order : 38056; 95263; 45633; 14898; 33658.
 95263, 95633, 38056, 33658, 14898
10. Write the Roman numeral for the following.
 (a) 24 is XXIV (b) 26 = XXVI (c) 50 = L

Chapter-2 Addition

Topics	Learning Outcomes	Teaching Learning Activity	Questions on Hots
Addition upto 6 digits. Real life world problems involving division.	The students will be able to perform Addition upto 6 digits	Worksheets on Addition to be done. A group activity involving Addition can be done.	54188 + 222918 = A man bought a car for Rs 454897 and spent Rs 45090 on its repair . What is the total cost of car for him?

Challenge Corner

Calculate the sum of 5 consecutive numbers starting from 2224.

5 consecutive numbers from 2224 are

2224, 2225, 2226, 2227, 2228

$$\begin{array}{r}
 \text{Sum} = \begin{array}{r}
 \overset{\textcircled{1}}{2} \ \overset{\textcircled{1}}{2} \ \overset{\textcircled{3}}{2} \ 4 \\
 2 \ 2 \ 2 \ 5 \\
 2 \ 2 \ 2 \ 7 \\
 + \ 2 \ 2 \ 2 \ 8 \\
 \hline
 1 \ 1 \ 1 \ 3 \ 0
 \end{array}
 \end{array}$$

Exercise 2.1

1. Add the following.

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

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

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

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

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

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

2. Add the following.

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

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

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

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

3. Fill in the boxes.

- (a) $27865 + \boxed{1} = 27866$
 (b) $24145 + 16275 = 16275 + \boxed{24145}$
 (c) $27675 + \boxed{0} = 27675$
 (d) $(30000 + 26275) + 10000 = 30000 + (26275 + 10000)$
 (e) $\boxed{13782} + 0 = 13782$

Exercise 2.2

1. Add the following.

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

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

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

(d)

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

(e)

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

(f)

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

2. Arrange in columns and add.

(a)

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

(b)

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

(c)

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

3. Rita deposited ₹ 2570 on Monday and ₹ 3700 on Tuesday. What is the amount of money deposited by Rita in these 2 days?

Money deposited on Monday	=	₹ 2 5 7 0
Money deposited on Tuesday	=	+ ₹ 3 5 0 0
Total money deposited on 2 days	=	6 0 7 0

Rita deposited ₹6070 in 2 days.

4. In a store, there are 1000 bags of wheat and 24200 bags of rice. Find the total number of bags in the store.

Number of wheat bags	=	₹ 2 5 7 0
Number of rice bags	=	+ ₹ 3 5 0 0
Total bags	=	6 0 7 0

∴ There are 25200 bags in the store.

4. In a store, there are 1000 bags of wheat and 24200 bags of rice. Find the total number of bags in the store.

Number of wheat bags	=	₹ 1 0 0 0
Number of rice bags	=	+ ₹ 2 4 2 0 0
Total bags	=	2 5 2 0 0

∴ There are 25200 bags in the store.

5. Rishav bought a second hand car for ₹85,220 and spent ₹7,999 on its repairs. How much did the car cost him in total?

Cost of the car	=	<table style="border-collapse: collapse; width: 100%;"> <tr> <td style="text-align: center;">①</td><td style="text-align: center;">①</td><td style="text-align: center;">①</td><td></td><td></td> </tr> <tr> <td style="text-align: center;">₹</td><td style="text-align: center;">8</td><td style="text-align: center;">5</td><td style="text-align: center;">2</td><td style="text-align: center;">2</td><td style="text-align: center;">0</td> </tr> <tr> <td style="text-align: center;">+</td><td style="text-align: center;">₹</td><td style="text-align: center;">7</td><td style="text-align: center;">9</td><td style="text-align: center;">9</td><td style="text-align: center;">9</td> </tr> <tr style="border-top: 1px solid black;"> <td></td><td style="text-align: center;">9</td><td style="text-align: center;">3</td><td style="text-align: center;">2</td><td style="text-align: center;">1</td><td style="text-align: center;">9</td> </tr> </table>	①	①	①			₹	8	5	2	2	0	+	₹	7	9	9	9		9	3	2	1	9
①	①	①																							
₹	8	5	2	2	0																				
+	₹	7	9	9	9																				
	9	3	2	1	9																				
Money spent on repair	=																								
Total cost of car	=																								

∴ Cost of car for Rishav is ₹93,219.

6. In a garment shop, 245 T-shirts, 450 kurtis and 1010 kids wear was sold in the month of March. What was the total sales in the month of March?

Number of T-shirts sold	=	<table style="border-collapse: collapse; width: 100%;"> <tr> <td style="text-align: center;">①</td><td></td><td></td> </tr> <tr> <td style="text-align: center;">2</td><td style="text-align: center;">4</td><td style="text-align: center;">5</td> </tr> </table>	①			2	4	5
①								
2	4	5						
Number of kurtis sold	=	<table style="border-collapse: collapse; width: 100%;"> <tr> <td style="text-align: center;">4</td><td style="text-align: center;">5</td><td style="text-align: center;">0</td> </tr> </table>	4	5	0			
4	5	0						
Number of kids wear	=	<table style="border-collapse: collapse; width: 100%;"> <tr> <td style="text-align: center;">+1</td><td style="text-align: center;">0</td><td style="text-align: center;">1</td><td style="text-align: center;">0</td> </tr> </table>	+1	0	1	0		
+1	0	1	0					
Total sales	=	<table style="border-collapse: collapse; width: 100%;"> <tr> <td style="text-align: center;">1</td><td style="text-align: center;">7</td><td style="text-align: center;">0</td><td style="text-align: center;">5</td> </tr> </table>	1	7	0	5		
1	7	0	5					

∴ Total sales of the month is 1705.

7. Solve : 26453 + 2645 + 26.

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

Answer : 29124.

SELF ASSESSMENT-2

1. Add the following.

(a)

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

(b)

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

2. Arrange in columns and add.

(a)

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

(b)

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

3. Fill in the blanks.

- (a) $25634 + 46135 = 46135 + 25634$
 (b) $(2364 + 1345) + 25624 = 2364 + (1345 + 25624)$
 (c) $0 + 13575 = 13575$
 (d) $64579 + 1 = 64580$
 (e) $53648 + 0 = 53648$

4. Fill in the boxes.

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

5. There are 54235 men, 12505 women and 3059 children attending a social gathering. How many people are there in all?

Number of men	=	5 4 2 3 5
Number of women	=	1 2 5 0 5
Number of children	=	+ 3 0 5 9
		6 9 7 9 9

∴ There are 69799 people is the gathering

Chapter-3 Subtraction

Topics	Learning Outcomes	Teaching Learning Activity	Questions on Hots
Subtraction upto 6 digits. Real life world problems involving division.	The students will be able to perform Subtraction upto 6 digits	Worksheets on subtraction to be done. A group activity involving subtraction can be done.	$54188 - 2918 =$ Subtract 661984 from 3654816= A man bought a bike for Rs 54897 and 2 years later sold it for Rs40987. What is the loss?

LOOK BACK

1. Subtract the following.

(a)

	H	T	O
	1	6	0
-	0	4	0
	1	2	0

(b)

	H	T	O
	2	9	0
-	1	8	0
	1	1	0

(c)

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

(d)

Th	H	T	O
	6	⁸ 9	¹ 6
-	5	2	9
<hr/>			
	1	6	7

(e)

Th	H	T	O
¹ 1	¹³ 4	¹ 5	0
-	8	6	0
<hr/>			
1	5	9	0

(f)

Th	H	T	O
7	8	¹⁷ 8	¹ 0
-	7	9	7
<hr/>			
	8	3	

2. A man had 120 balloons, he sold 45 balloons, how many balloons are left with him?

H	T	O
1	¹ 2	¹ 0
-	4	5
<hr/>		
7	5	

75 balloons are left with him.

Exercise 3.1

1. Subtract the following.

(a)

Th	H	T	O
4	8	7	1
-	2	3	4
<hr/>			
2	5	3	1

(b)

Th	H	T	O
8	6	5	1
-	4	3	3
<hr/>			
4	3	2	1

(c)

TTh	Th	H	T	O
2	4	1	8	9
-	1	3	1	2
<hr/>				
1	1	0	6	9

(d)

TTh	Th	H	T	O
2	9	4	5	0
-	1	3	4	0
<hr/>				
2	8	1	1	0

2. Arrange in columns and subtract.

(a)

TTh	Th	H	T	O
6	4	9	9	9
-	4	3	1	6
<hr/>				
2	1	8	3	0

(b)

TTh	Th	H	T	O
8	2	6	1	8
-	3	2	0	0
<hr/>				
5	0	6	1	8

(c)

TTh	Th	H	T	O
5	8	9	9	9
-	1	4	8	7
<hr/>				
4	4	1	2	7

(d)

TTh	Th	H	T	O
3	8	7	2	5
-	1	8	3	1
<hr/>				
2	0	4	1	5

3. Fill in the boxes.

	TTh	Th	H	T	O
	7	8	2	4	2
-	<input type="text" value="4"/>	<input type="text" value="4"/>	1	3	<input type="text" value="6"/>
	3	4	1	<input type="text" value="1"/>	2

	TTh	Th	H	T	O
	1	3	9	2	0
-		1	8	<input type="text" value="1"/>	<input type="text" value="0"/>
	1	<input type="text" value="2"/>	<input type="text" value="1"/>	1	0

	TTh	Th	H	T	O
	8	2	4	<input type="text" value="6"/>	5
-	<input type="text" value="1"/>	1	3	3	4
	7	1	1	3	<input type="text" value="1"/>

	TTh	Th	H	T	O
	3	<input type="text" value="7"/>	2	<input type="text" value="1"/>	3
-	1	2	<input type="text" value="1"/>	1	1
	2	5	1	0	2

Exercise 3.2

1. Subtract the following.

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

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

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

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

	TTh	Th	H	T	O
	⁵ 6	¹³ 4	¹² 3	⁹ 0	¹ 0
-	4	9	4	9	9
	1	4	8	0	1

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

2. Arrange in columns and subtract.

	TTh	Th	H	T	O
	¹ 2	¹³ 4	¹⁷ 8	¹ 5	8
-		9	9	8	7
	1	4	8	7	1

	TTh	Th	H	T	O
	¹ 2	¹⁴ 5	¹⁵ 6	¹ 7	5
-	1	7	3	8	4
	8	2	9	1	

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

3. Find the difference between 24342 and 18204.

	TTh	Th	H	T	O
	¹ 2	¹ 4	3	¹³ 4	¹ 2
-	1	8	2	0	4
	6	1	3	8	

4. Subtract 24209 from 98206.

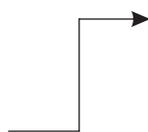
	TTh	Th	H	T	O
	9	⁷ 8	¹¹ 2	⁹ 0	¹ 6
-	2	4	2	0	9
	7	3	9	9	7

5. Subtract 18 thousand from 35 thousand two hundred.

	TTh	Th	H	T	O
		3	5	2	0
-	1	8	0	0	0
	1	7	2	0	0

6. Solve: $38245 - 8245 - 824$.

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



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

Ans : 2176

Challenge Corner

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

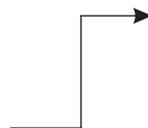
	Th	H	T	O
	4	2	1	4
-	3	7	8	8
	4	2	6	

Exercise 3.3

1. Solve:

(a) $86841 - 52174 + 20000$

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

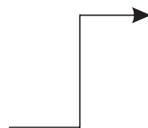


	TTh	Th	H	T	O
	3	4	6	4	1
+	2	0	0	0	0
	5	4	6	6	7

Ans : 54667

(b) $502566 + 103400 - 25999$

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



	L	TTh	Th	H	T	O
	5	0	2	5	6	6
+		2	5	9	9	9
	5	7	9	9	6	7

Ans : 579967

(c) $96400 + 13114 - 23110$

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

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

2. A milk dairy produced 25200 litres of milk on Monday. It supplied 18825 litres to the entire town. How much milk is left in the dairy?

Quantity of milk produced on Monday	=	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>2</td><td>5</td><td>2</td><td>0</td><td>0</td></tr> <tr><td>1</td><td>14</td><td>11</td><td>9</td><td>1</td></tr> <tr><td colspan="5" style="border-top: 1px solid black;"></td></tr> <tr><td>6</td><td>3</td><td>7</td><td>5</td><td></td></tr> </table>	2	5	2	0	0	1	14	11	9	1						6	3	7	5	
2	5	2	0	0																		
1	14	11	9	1																		
6	3	7	5																			
Quantity of milk supplied to the town	=	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>1</td><td>8</td><td>8</td><td>2</td><td>5</td></tr> <tr><td colspan="5" style="border-top: 1px solid black;"></td></tr> <tr><td>6</td><td>3</td><td>7</td><td>5</td><td></td></tr> </table>	1	8	8	2	5						6	3	7	5						
1	8	8	2	5																		
6	3	7	5																			
Quantity of milk left	=	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>6</td><td>3</td><td>7</td><td>5</td><td></td></tr> </table>	6	3	7	5																
6	3	7	5																			

∴ 6375 L of milk is left

3. The sum of two numbers is 87506. If one of the number is 13786, find the other number.

The sum of two numbers	=	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>8</td><td>7</td><td>5</td><td>0</td><td>6</td></tr> <tr><td>6</td><td>14</td><td>1</td><td></td><td></td></tr> <tr><td colspan="5" style="border-top: 1px solid black;"></td></tr> <tr><td>7</td><td>3</td><td>7</td><td>2</td><td>0</td></tr> </table>	8	7	5	0	6	6	14	1								7	3	7	2	0
8	7	5	0	6																		
6	14	1																				
7	3	7	2	0																		
One of the number	=	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>1</td><td>3</td><td>7</td><td>8</td><td>6</td></tr> <tr><td colspan="5" style="border-top: 1px solid black;"></td></tr> <tr><td>7</td><td>3</td><td>7</td><td>2</td><td>0</td></tr> </table>	1	3	7	8	6						7	3	7	2	0					
1	3	7	8	6																		
7	3	7	2	0																		
The other number	=	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>7</td><td>3</td><td>7</td><td>2</td><td>0</td></tr> </table>	7	3	7	2	0															
7	3	7	2	0																		

∴ The other number is 73720.

4. Mr. Gupta wants to purchase a motorcycle which costs ₹ 92760. He has ₹ 85720 with him. How much more money does he need to buy the motorcycle?

Cost of motorcycle	=	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>₹</td><td>9</td><td>2</td><td>7</td><td>6</td><td>0</td></tr> <tr><td>8</td><td>1</td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="6" style="border-top: 1px solid black;"></td></tr> <tr><td>₹</td><td>8</td><td>5</td><td>7</td><td>2</td><td>0</td></tr> <tr><td colspan="6" style="border-top: 1px solid black;"></td></tr> <tr><td>7</td><td>0</td><td>4</td><td>0</td><td></td><td></td></tr> </table>	₹	9	2	7	6	0	8	1											₹	8	5	7	2	0							7	0	4	0		
₹	9	2	7	6	0																																	
8	1																																					
₹	8	5	7	2	0																																	
7	0	4	0																																			
Money Mr Gupta has	=	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>₹</td><td>8</td><td>5</td><td>7</td><td>2</td><td>0</td></tr> <tr><td colspan="6" style="border-top: 1px solid black;"></td></tr> <tr><td>7</td><td>0</td><td>4</td><td>0</td><td></td><td></td></tr> </table>	₹	8	5	7	2	0							7	0	4	0																				
₹	8	5	7	2	0																																	
7	0	4	0																																			
Money required	=	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>7</td><td>0</td><td>4</td><td>0</td><td></td><td></td></tr> </table>	7	0	4	0																																
7	0	4	0																																			

∴ Mr Gupta needs 7040 more money to purchase the motor cycle.

5. Out of 14260 children in a town, 6989 are boys and the rest are girls. How many girls are there.

Total number of children	=	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>1</td><td>4</td><td>2</td><td>6</td><td>0</td></tr> <tr><td>3</td><td>11</td><td>14</td><td>1</td><td></td></tr> <tr><td colspan="5" style="border-top: 1px solid black;"></td></tr> <tr><td>6</td><td>9</td><td>8</td><td>9</td><td></td></tr> <tr><td colspan="5" style="border-top: 1px solid black;"></td></tr> <tr><td>7</td><td>2</td><td>7</td><td>1</td><td></td></tr> </table>	1	4	2	6	0	3	11	14	1							6	9	8	9							7	2	7	1	
1	4	2	6	0																												
3	11	14	1																													
6	9	8	9																													
7	2	7	1																													
Number of boys	=	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>6</td><td>9</td><td>8</td><td>9</td><td></td></tr> <tr><td colspan="5" style="border-top: 1px solid black;"></td></tr> <tr><td>7</td><td>2</td><td>7</td><td>1</td><td></td></tr> </table>	6	9	8	9							7	2	7	1																
6	9	8	9																													
7	2	7	1																													
Number of girls	=	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>7</td><td>2</td><td>7</td><td>1</td><td></td></tr> </table>	7	2	7	1																										
7	2	7	1																													

∴ There are 7271 girls in town.

6. Mr. Smith had ₹ 18340. He spent ₹ 12644 medical expenses, ₹2240 on clothing. How much money is left with him?

Money spent on medical expenses	=	₹1 2 6 4 4
Money spent on clothing	=	+ ₹ 2 2 4 0
Total money spent	=	₹1 4 8 8 4

Money Mr Smith had	=	₹1 8 3 4 0
Money spent	=	- ₹1 4 8 8 4
		₹ 3 4 5 6

∴ ₹ 3456 is left with Mr Smith.

7. Mrs. Betty bought some gold for ₹36550. She gave the shopkeeper ₹37000. How much money will the shopkeeper return to Mrs. Betty?

Mrs Betty gave the shopkeeper	=	₹3 ⁶ 0 ⁹ 0 0 0
Cost of gold	=	- ₹3 6 6 5 0
Money to be returned	=	₹ 0 3 5 0

∴ Mrs Betty will get back ₹350 from the shopkeeper.

8. Rahul has ₹ 2500, out of which he spent ₹ 1200. His mother gave her ₹ 1500 next month. How much money does he have now?

Amount of money Rahul had	=	₹ 2 5 0 0
Amount of money spent	=	- ₹ 1 2 0 0
		₹ 1 3 0 0

Money left	=	₹ 1 3 0 0
Rahul gets	=	- ₹ 1 5 0 0
Total	=	₹ 2 8 0 0

∴ Rahul has ₹2800 now.

SELF ASSESSMENT-3

1. Subtract the following.

(a)

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

(b)

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

2. Arrange in columns and subtract.

	L	TTh	Th	H	T	O
	5	14	13	12	13	1
	6	5	4	3	4	1
-	2	6	7	6	8	9
	3	8	6	6	5	2

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

3. What should be added to 15395 to get 499998?

	L	TTh	Th	H	T	O
	4	9	9	9	9	8
-		1	5	3	9	5
	4	8	4	6	0	3

∴ 484603 should be added.

4. Solve : 27825 + 14305 – 2535

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

→

	TTh	Th	H	T	O
	1	11	10	1	
	4	2	1	3	0
-		2	5	3	5
	3	9	5	9	5

Ans : 39595

5. Sukhwinder earns ₹ 84405 per month while his friend earns ₹ 40480. Who earns more and by how much?

Sukhwinder earns =	₹ 8 4 4 0 5
His friend earns =	- ₹ 4 0 4 8 0
	₹ 4 3 9 2 5

∴ Sukhwinder earns 43,925 more than his friend.

6. Fill in the boxes.

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

7. Arunita bought a second hand car at a ₹ 256405 and spent ₹ 45000 on its repairs. She then sold it for ₹ 400700. Find how much did she earn as profit.

Cost of second hand car	=	$\begin{array}{r} \text{₹ } 256405 \\ - \text{₹ } 45000 \\ \hline \text{₹ } 301405 \end{array}$
Money spend on its repair	=	$\begin{array}{r} \text{₹ } 45000 \\ - \text{₹ } 301405 \\ \hline \text{₹ } 99295 \end{array}$
Total cost of car	=	$\text{₹ } 301405$

Car was sold for	=	$\begin{array}{r} \text{₹ } 400700 \\ - \text{₹ } 301405 \\ \hline \text{₹ } 99295 \end{array}$
Total cost of car	=	$\text{₹ } 301405$
Profit	=	$\text{₹ } 99295$

∴ Arunita made a profit of ₹99295.

8. Sumita went shopping. She bought a dress for ₹ 2500 and a pair of shoes for ₹3450. If she had ₹ 8000, how much is still left with her?

Moneys spent on shopping	=	$\begin{array}{r} \text{₹ } 2500 \\ - \text{₹ } 3450 \\ \hline \text{₹ } 5950 \end{array}$
Money spent on shoes	=	$\text{₹ } 3450$
Total money spent	=	$\text{₹ } 5950$

Money Sumita had	=	$\begin{array}{r} \text{₹ } 8000 \\ - \text{₹ } 5950 \\ \hline \text{₹ } 2050 \end{array}$
Amount of money spent	=	$\text{₹ } 5950$
Money left	=	$\text{₹ } 2050$

∴ ₹2050 is left with Sumita

Chapter-4 Multiplication

Topics	Learning Outcomes	Teaching Learning Activity	Questions on Hots
Revision of tables 2 to 10.	The students will be able to perform multiplication on 3 digit and 4 digit number.	Worksheets on division to be done.	54188 -2918= 188 X 18= 1984 X16=
Multiplication of 3 digit and 4 digit number by 1 digit and 2 digit number.	students will be able to multiply numbers by 10, 100 and 1000	Mental maths involving Multiplication by 10,100 and 1000 to be done	598 X 100= 126 X10 =
Multiplication by 10,100 and 1000.			
Real life world problems involving division.		A group activity involving Multiplication can be done.	A man bought 1kg of apples at Rs257.What is the cost of 5 kg apples.

LOOK BACK

Multiply the following.

(a)
$$\begin{array}{r} 42 \\ \times 6 \\ \hline 252 \end{array}$$

(b)
$$\begin{array}{r} 74 \\ \times 2 \\ \hline 148 \end{array}$$

(c)
$$\begin{array}{r} 36 \\ \times 4 \\ \hline 144 \end{array}$$

(d)
$$\begin{array}{r} 115 \\ \times 3 \\ \hline 345 \end{array}$$

(e)
$$\begin{array}{r} 132 \\ \times 5 \\ \hline 660 \end{array}$$

(f)
$$\begin{array}{r} 364 \\ \times 3 \\ \hline 1092 \end{array}$$

Exercise 4.1

1. Fill in the blanks.

(a) $635 \times 0 = 0$

(b) $240 \times 1 = 240$

(c) $0 \times 1 = 0$

(d) $26 \times 47 = 47 \times 26$

(e) $156 \times (5 \times 32) = (156 \times 5) \times 32$

(f) $25 \times (36 + 20) = (25 \times 36) + (25 \times 20)$

2. Find the products for the following.

(a) $136 \times 100 = 13600$

(b) 29×700

(c) $19 \times 10 = 190$

$$\begin{array}{r} \textcircled{6} \\ 29 \\ \times 700 \\ \hline 20300 \end{array}$$

(Multiply the non zero digits and add the number of zeroes)

(d) $72 \times 40 = 2880$

(e) $30 \times 200 = 6000$

Exercise 4.2

1. Multiply:

(a)
$$\begin{array}{r} \textcircled{1} \text{Th} \textcircled{3} \text{H} \textcircled{4} \text{T} \textcircled{5} \text{O} \\ 1345 \\ \times 2 \\ \hline 2690 \end{array}$$

(b)
$$\begin{array}{r} \textcircled{1} \text{Th} \textcircled{3} \text{H} \textcircled{2} \text{T} \textcircled{6} \text{O} \\ 2476 \\ \times 4 \\ \hline 9904 \end{array}$$

2. Find the product of the following.

(a)
$$\begin{array}{r} \textcircled{3} \text{TTh} \textcircled{2} \text{Th} \textcircled{1} \text{H} \textcircled{6} \text{T} \textcircled{5} \text{O} \\ 2765 \\ \times 4 \\ \hline 11060 \end{array}$$

(b)
$$\begin{array}{r} \textcircled{1} \text{TTh} \textcircled{3} \text{Th} \textcircled{6} \text{H} \textcircled{1} \text{T} \textcircled{5} \text{O} \\ 6015 \\ \times 7 \\ \hline 42105 \end{array}$$

(c)
$$\begin{array}{r} \textcircled{5} \text{L} \textcircled{6} \text{TTh} \textcircled{7} \text{Th} \textcircled{5} \text{H} \textcircled{5} \text{T} \textcircled{0} \text{O} \\ 5675 \\ \times 22 \\ \hline 11350 \\ 11350 \times \\ \hline 124850 \end{array}$$

(d)

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

(e)

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

(f)

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

Challenge Corner

Fill in the boxes:

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

Exercise 4.3

1. Multiply the following.

(a) 435×362

(b) 2053×152

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

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

2. Find the product for the following.

(a)

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

(b)

T	T	H	T	O
	1	1	2	2
		×	1	0
			1	
	1	1	2	2
	0	0	0	0
			×	×
1	1	2	2	×
1	1	3	3	2

(c)

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

5. The monthly salary of Mr. David is ₹ 9525.

- (i) What is his annual salary?
 (ii) How much does he earn in 5 years?

Monthly salary of Mr David = ₹ 9525
 Annual salary = ₹ 9525 × 12
 = ₹ 11,43,000
 Earning of 5 years = ₹ 1,14,30,000
 = ₹ 5,71,50,000

$$\begin{array}{r} 9525 \\ \times 12 \\ \hline 19050 \\ 9525 \times \\ \hline 114300 \end{array}$$

$$\begin{array}{r} 114300 \\ \times 5 \\ \hline 571500 \end{array}$$

∴ Mr David's annual salary is ₹ 1,14,300 and 5 year's salary is ₹ 5,71,500

4. A chair costs ₹ 1250 and a table costs ₹ 4520. What will be the cost of 22 chairs and 14 tables?

Cost of 1 chair = ₹ 1250
 Cost of 22 chairs = ₹ 1250 × 22
 = ₹ 27,500

$$\begin{array}{r} 1250 \\ \times 22 \\ \hline 2500 \\ 2500 \times \\ \hline 27500 \end{array}$$

Cost of 1 table = ₹ 4520
 Cost of 14 tables = ₹ 4520 × 14
 ₹ 63,280

$$\begin{array}{r} 4520 \\ \times 14 \\ \hline 18080 \\ 4520 \times \\ \hline 63280 \end{array}$$

Total Cost =

$$\begin{array}{r} 27500 \\ + 63280 \\ \hline 90780 \end{array}$$

∴ Total cost of 22 chairs and 14 tables is ₹ 90780.

5. A shop keeper has 629 boxes of candies and each box has 45 candies. What is the total count of candies that the shopkeeper has?

Number of candy boxes = 629
 Number of candies in each box = 45
 ∴ Total candies = 629 × 45
 = 28305

$$\begin{array}{r} 629 \\ \times 45 \\ \hline 3145 \\ 2516 \times \\ \hline 28305 \end{array}$$

∴ There are 28305 candies in all.

SELF ASSESSMENT-4

1. Fill in the blanks.

(a) $264 \times 1 = 264$

(b) $491 \times 0 = 0$

(c) $6,722 \times 0 = 0$

(d) $245 \times 134 = 134 \times 245$

(e) $13 \times (14 \times 17) = (13 \times 14) \times 17$

(f) $40 \times 5 \times 2 = 400$

(g) $275 \times 1,000 = 275000$

(h) $472 \times 10 = 4720$

2. Find the product of 112×300 .

112×300

1	1	2	
×	3	0	0
3	3	0	0

3. Find the products:

(a) 2117×7

2	1	1	7	
		×	7	
1	4	8	1	9

(b) 4764×14

4	7	6	4	
		×	1	4
1	9	0	5	6
4	7	6	4	×
6	6	6	9	6

(c) 852×84

8	5	2		
		×	8	4
3	4	0	8	
6	8	1	6	×
7	1	5	6	8

4. A truck can carry 388 kg of oranges. 87 trucks carrying oranges were sent from Kolkata to Murshidabad. How many oranges reached Murshidabad?

Number of oranges a truck can carry = 388 kg
 Total oranges is 87 trucks = 388×87
 = 33756 kg

3	8	8		
		×	8	7
2	7	1	6	
3	1	0	4	×
3	3	7	5	6

∴ 87 trucks can carry 33756 kg of oranges.

5. On an average we blink 1,200 times per hour. How many times do we blink in a day?

Blink per hour = 1200
 Blinks in 1 day (24 hours) = 1200×24
 = 28800

1	2	0	0	
		×	2	4
4	8			
		2	4	×
2	8	8	0	0

∴ On an orange we blink 28800 times in a day.

6. Multiply :

(a) 2134×235

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

(b) 1345×132

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

Chapter-5 Division

Topics	Learning Outcomes	Teaching Learning Activity	Questions on Hots
Division of 3 digit and 4 digit number by 1 digit and 2 digit number.	The students will be able to perform division on 3 digit and 4 digit number.	Worksheets on division to be done.	225 divided by 18
Division by 10,100 and 1000.	students will be able to divide numbers by 10, 100 and 1000	Mental maths involving division by 10,100 and 1000 to be done	6598 divided by 100
Real life world problems involving division.		A group activity involving division can be done. A student acts as a shopkeeper and one children go to buy things.	A man bought 3kgs of apples at Rs337.What is the cost of 1 kg apple.

Exercise 5.1

1. Divide the following using short cut method.

(a) $2 \overline{)1264}$
632

Quotient = **632**
Remainder = **0**

(b) $4 \overline{)2789}$
697-1

Quotient = **697**
Remainder = **1**

(c) $6 \overline{)136}$
22-4

Quotient = **22**
Remainder = **4**

2. Divide the following using long division method.

(a) $2786 \div 7$

$$\begin{array}{r} 398 \\ 7 \overline{) 2786} \\ \underline{-21} \downarrow \\ 68 \downarrow \\ \underline{63} \downarrow \\ 56 \\ \underline{-56} \\ 0 \end{array}$$

Quotient = **398**
Remainder = **0**

(b) $4266 \div 4$

$$\begin{array}{r} 1066 \\ 4 \overline{) 4266} \\ \underline{-40} \downarrow \\ 26 \downarrow \\ \underline{-24} \downarrow \\ 26 \\ \underline{-24} \\ 2 \end{array}$$

Quotient = **1066**
Remainder = **2**

(c) $3675 \div 2$

$$\begin{array}{r} 1837 \\ 2 \overline{) 3675} \\ \underline{-20} \downarrow \\ 16 \downarrow \\ \underline{-16} \downarrow \\ 07 \downarrow \\ \underline{-6} \downarrow \\ 15 \\ \underline{-14} \\ 1 \end{array}$$

Quotient = **1837**
Remainder = **1**

(d) $2975 \div 5$

$$\begin{array}{r} 595 \\ 5 \overline{) 2975} \\ \underline{-25} \downarrow \\ 47 \downarrow \\ \underline{-45} \downarrow \\ 25 \\ \underline{-25} \\ \times \end{array}$$

Quotient = **595**
Remainder = **0**

(e) $31059 \div 3$

$$\begin{array}{r} 10353 \\ 3 \overline{) 31059} \\ \underline{-3} \downarrow \\ 01 \downarrow \\ \underline{-0} \downarrow \\ 10 \downarrow \\ \underline{-9} \downarrow \\ 15 \downarrow \\ \underline{-15} \downarrow \\ 09 \\ \underline{-9} \\ 0 \end{array}$$

Quotient = **10353**
Remainder = **0**

(f) $6273 \div 8$

$$\begin{array}{r} 7841 \\ 8 \overline{) 62731} \\ \underline{-56} \downarrow \\ 67 \downarrow \\ \underline{-64} \downarrow \\ 33 \downarrow \\ \underline{-32} \downarrow \\ 11 \\ \underline{-8} \\ 3 \end{array}$$

Quotient = **7841**
Remainder = **8**

3. Divide mentally to find out the quotient and remainder.

(a) $32645 \div 1000$

Quotient = 32

Remainder = 645

(b) $6624 \div 10$

Quotient = 662

Remainder = 4

(c) $777 \div 100$

Quotient = 7

Remainder = 77

(d) $1000 \div 100$

Quotient = 10

Remainder = 0

(e) $3006 \div 1000$

Quotient = 3

Remainder = 6

Exercise 5.2

1. Divide the following.

(a) $35 \overline{)735}$

$$\begin{array}{r} 21 \\ 35 \overline{)735} \\ \underline{-70} \downarrow \\ 35 \\ \underline{-35} \\ \hline \times \end{array}$$

Quotient = **21**
Remainder = **0**

(b) $18 \overline{)95742}$

$$\begin{array}{r} 5319 \\ 18 \overline{)95742} \\ \underline{-90} \downarrow \\ 57 \\ \underline{-54} \downarrow \\ 34 \\ \underline{-18} \downarrow \\ 162 \\ \underline{-162} \\ \hline \times \end{array}$$

Quotient = **5319**
Remainder = **0**

(c) $23 \overline{)345}$

$$\begin{array}{r} 15 \\ 23 \overline{)345} \\ \underline{-23} \downarrow \\ 115 \\ \underline{-115} \\ \hline \times \end{array}$$

Quotient = **15**
Remainder = **0**

2. Find the quotient and remainder.

(a) $948 \div 13$

$$\begin{array}{r} 72 \\ 13 \overline{)948} \\ \underline{-91} \downarrow \\ 38 \\ \underline{-26} \\ 12 \end{array}$$

Quotient = **72**
Remainder = **12**

(b) $9282 \div 13$

$$\begin{array}{r} 714 \\ 13 \overline{)9282} \\ \underline{-91} \downarrow \\ 18 \\ \underline{-13} \downarrow \\ 52 \\ \underline{-52} \\ \hline \times \end{array}$$

Quotient = **714**
Remainder = **0**

(c) $1234 \div 15$

$$\begin{array}{r} 82 \\ 15 \overline{)1234} \\ \underline{-12} \downarrow \downarrow \\ 34 \\ \underline{-30} \\ 4 \end{array}$$

Quotient = **82**
Remainder = **4**

(d) $5284 \div 12$

$$\begin{array}{r} 440 \\ 12 \overline{)5284} \\ \underline{-48} \downarrow \\ 48 \\ \underline{-48} \downarrow \\ 04 \\ \underline{00} \\ 4 \end{array}$$

Quotient = **440**
Remainder = **4**

(e) $22103 \div 45$

$$\begin{array}{r} 491 \\ 45 \overline{)22103} \\ \underline{-180} \downarrow \\ 410 \\ \underline{-405} \downarrow \\ 53 \\ \underline{-45} \\ 08 \end{array}$$

Quotient = **491**
Remainder = **8**

(f) $8149 \div 11$

$$\begin{array}{r} 7408 \\ 11 \overline{)81491} \\ \underline{-77} \downarrow \\ 44 \\ \underline{-44} \downarrow \\ 91 \\ \underline{-88} \\ 3 \end{array}$$

Quotient = **7408**
Remainder = **3**

3. The Cost of 25 books is 8075. Find the cost of 1 book.

$$\begin{array}{r}
 \text{Cost of 25 books} = ₹ 8075 \\
 \text{Cost of 1 books} = 8075 \div 25 \\
 = ₹ 323
 \end{array}
 \quad
 \begin{array}{r}
 323 \\
 25 \overline{) 8075} \\
 \underline{75} \downarrow \\
 57 \\
 \underline{-50} \downarrow \\
 75 \\
 \underline{-75} \\
 \hline
 \times
 \end{array}$$

∴ Cost of 1 book is ₹ 323.

7. 7 litres of oil costs ` 203. Find the cost of 1 litre oil.

$$\begin{array}{r}
 \text{Cost of 7 litre of oil} = ₹ 203 \\
 \text{Cost of 1 litre of oil} = 203 \div 7 \\
 = ₹ 29
 \end{array}
 \quad
 \begin{array}{r}
 29 \\
 7 \overline{) 203} \\
 \underline{-14} \downarrow \\
 63 \\
 \underline{-63} \\
 \hline
 \times
 \end{array}$$

∴ Cost of 1 litre oil is ₹ 29.

SELF ASSESSMENT-5

1. Fill in the blanks.

(a) $54320 \div 10 = \underline{5432}$

(b) $246300 \div 100 = \underline{2463}$

(c) $999 \div \underline{1} = 999$

(d) $4504 \div \underline{4504} = 1$

(e) $76246 \div 1000$

Quotient = 76 Remainder = 246

(f) (Divisor × Quotient) + Remainder = Dividend

2. Find the quotient and remainder of the following.

(a) $3423 \div 5$

$$\begin{array}{r}
 684 \\
 5 \overline{) 3423} \\
 \underline{-30} \downarrow \\
 42 \\
 \underline{-40} \downarrow \\
 23 \\
 \underline{-20} \\
 3
 \end{array}$$

Quotient = **684**

Remainder = **3**

(b) $5312 \div 32$

$$\begin{array}{r}
 166 \\
 32 \overline{) 5312} \\
 \underline{-32} \downarrow \\
 211 \\
 \underline{-192} \downarrow \\
 192 \\
 \underline{-192} \\
 \hline
 \times
 \end{array}$$

Quotient = **166**

Remainder = **32**

3. The product of two number is 8296. If one of the number is 68. Find the other number.

$$\begin{aligned} \text{Product of two number} &= 8296 \\ \text{One number} &= 68 \\ \text{Other number} &= 8296 \div 68 \\ &= 122 \end{aligned}$$

$$\begin{array}{r} 122 \\ 68 \overline{) 8296} \\ \underline{-68} \downarrow \\ 149 \\ \underline{-136} \downarrow \\ 136 \\ \underline{-136} \\ \hline \times \end{array}$$

∴ The other number is **122**.

4. The value of $26 + 14 - (12 \div 6)$ is **38**.

$$\begin{aligned} 26 + 14 - (12 \div 6) \\ = 26 + 14 - 2 = 38 \quad (\text{Since } 12 \div 6 = 2) \end{aligned}$$

Answer option (d) 38

5. The number by which we divide a number is called the **divisor**.
6. If the divisor is 29 and quotient is 5, the dividend is **145**.

$$\begin{aligned} \text{divisor} &= 29, & \text{quotient} &= 5 \\ \text{Dividend} &= 29 \times 5 = 145 \end{aligned}$$

Answer option (b) 145

7. If 5 pencils are packed in a box, how many boxes will be required to pack 1755 pencils?

$$\begin{aligned} \text{No of boxes required} &= 1755 \div 5 \\ &= 351 \text{ boxes} \end{aligned}$$

$$\begin{array}{r} 351 \\ 5 \overline{) 1755} \\ \underline{-15} \downarrow \\ 25 \\ \underline{-25} \downarrow \\ 5 \\ \underline{-5} \\ \hline \times \end{array}$$

Answer option (a) 351

8. Find the remainder : $2460 \div 100$.

$$2460 \div 100$$

$$\text{Quotient} = 24 \qquad \text{Remainder} = 60$$

Answer option (a) 6

Chapter-6 Estimation

Topics	Learning Outcomes	Teaching Learning Activity	Questions on Hots
Rounding off a number to nearest 10,100 ,1000 and highest place including word problem related to real life situations.	The students will be able to round off a number to nearest 10,100,1000 and highest place.	Worksheets on rounding off.	Round of 105 to nearest 10,100 and 1000.
Estimating the sum, difference and product	The students will be able to calculate an estimate of sum, product and difference	Worksheets to be done on estimation involving real life situation.	The first bus has 165 passengers and second bus has 59 passengers. There are approximately _____ passengers

Exercise 6.1

1. Round off the following numbers to nearest ten.

- (a) 126 rounded to nearest is 130
- (b) 1023 rounded to nearest is 1020
- (c) 536 rounded to nearest is 540
- (d) 1032 rounded to nearest is 1030

To round off to nearest ten look at the one's digit the one's digit if quates or equal to 5 round of to next high ten if less then previous tens

2. Round off to nearest hundred.

- (a) 6476 rounded to nearest hundred is 6500
- (b) 128 rounded to nearest hundred is 100
- (c) 593 rounded to nearest hundred is 600
- (d) 5799 rounded to nearest hundred is 5800

3. Round off to nearest thousand.

- (a) 1234 rounded to nearest thousand is 1000
- (b) 76459 rounded to nearest thousand is 76000
- (c) 11871 rounded to nearest thousand is 12000
- (d) 4677 rounded to nearest thousand is 5000

Exercise 6.2

1. Estimate the sum of 2462 + 1346 to the nearest 10 and 100.

$$\begin{aligned}
 2462 \text{ to nearest ten} &= 2460 \\
 1346 \text{ to nearest ten} &= 1350 \\
 \text{Estimate sum to nearest ten} &= 2460 + 1350 \\
 &= \mathbf{3810}
 \end{aligned}$$

$$\begin{array}{r}
 2460 \\
 + 1350 \\
 \hline
 3810
 \end{array}$$

$$\begin{aligned}
 2462 \text{ to nearest hundred} &= 2500 \\
 1346 \text{ to nearest hundred} &= 1300 \\
 \text{Estimate sum 10 nearest hundred} &= 2500 + 1300 \\
 &= \mathbf{3800}
 \end{aligned}$$

2. **Gracy bought a television for ₹15,262 and mobile phone for ₹ 8599. About how much did she spend in all? Estimate the answer to the nearest 100.**

$$\begin{aligned} \text{Cost of television to nearest hundred} &= ₹ 15300 \\ \text{Cost of mobile phone to nearest hundred} &= ₹ 8600 \\ \text{Estimate money spent} &= ₹ 23900 \end{aligned}$$

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

$$\therefore \text{Estimated money spend} = ₹ 23900$$

3. **Estimate the product of 1625 and 32, rounding off each number to its highest place.**

$$\begin{aligned} 1625 \text{ rounded off to highest place} &= 2000 \\ 32 \text{ rounded off to highest place} &= 30 \\ \text{Estimated product} &= 2000 \times 30 \\ &= \mathbf{60000} \end{aligned}$$

4. **Estimate the difference of 2675 and 1497 to nearest 1000.**

$$\begin{aligned} 2675 \text{ rounded off to nearest thousand} &= 2700 \\ 1497 \text{ rounded off to nearest thousand} &= 1000 \\ \text{Estimated difference} &= 2700 - 1000 \\ &= \mathbf{2700} \end{aligned}$$

5. **A water tanker had 11872 litres of water. 4623 litres of water were distributed. How much water is left in the tanker? Also calculate the estimate of water left to nearest thousand.**

$$\begin{aligned} \text{Quantity of water in the water tanker} &= \begin{array}{r} \overset{\textcircled{6}}{1} \overset{\textcircled{12}}{1} 8 \cancel{7} \cancel{2} \text{ L} \\ - 4623 \text{ L} \\ \hline 7249 \text{ L} \end{array} \\ \text{Quantity of water distributed} &= \\ \text{Quantity of water left} &= \end{aligned}$$

$$\begin{aligned} \text{Estimate of water in tank to nearest thousand} &= \begin{array}{r} 12000 \text{ L} \\ - 5000 \text{ L} \\ \hline 7000 \text{ L} \end{array} \\ \text{Estimate of water distributed to nearest thousand} &= \\ \text{Estimate of water left} &= \end{aligned}$$

6. **Round off 7643 to its highest place.**

Round off 7643 to highest place (i.e thousand) 8000

7. 76453 when rounded to its highest place is **80000**.

8. 6432 + 7344. Estimate the answer in nearest ten.

$$\begin{aligned} 6432 \text{ to nearest ten} &= \begin{array}{r} 6430 \\ + 7340 \\ \hline 13770 \end{array} \\ 7344 \text{ to nearest ten} &= \\ \text{Estimated sum} &= \end{aligned}$$

Answer option (b)

SELF ASSESSMENT-6

1. Round off the following numbers.

		Nearest 10	Nearest 100	Nearest 1000
(a)	24678	24680	24700	25000
(b)	2143	2140	2100	2000
(c)	13425	13430	13400	13000

2. Round off the following numbers to its highest place.

(a) 6347 rounded to highest place (i.e 1000) = 6000

(b) 149 rounded to highest place (i.e 100) = 100

(c) 3467 rounded to highest place (i.e 1000) = 3000

3. Estimate the sum of 1469 and 246 to nearest 10.

1469 rounded to nearest = 1470

246 rounded to nearest = 250

Estimated sum = 1470 + 250

= **1720**

1 4 7 0
+ 2 5 0
1 7 2 0

4. Estimate the difference of 1465 and 1342 to nearest 100.

1465 rounded to nearest hundred = 1500

1342 rounded to nearest hundred = 1300

Estimated difference = 1500 – 1300

= **1200**

5. A pilot flies 8 trips of 2434 km in a week. How many kilometres does he fly in total? Also estimate the total distance of his trip to the nearest hundreds.

A pilot flies of = 2434 km

Total distance = 2434 × 8

= 19472 km

Estimated distance = 2400

Estimated trips = 10

Estimated total distance to nearest hundred = 2400 × 10

= 24000

6. Estimate the product of 265 and 171 to its nearest ten.

265 rounded to nearest tens = 270

171 rounded to nearest tens = 170

Estimated product = 45900

2 7 0
× 1 7 0
0 0 0
1 8 9 0 ×
2 7 0 × ×
4 5 9 0 0

Choose the correct option.

7. 6453 rounded off to nearest hundred is: **6500**
Answer option (b) 6500
8. 4800 rounded off to the highest place is: **5000**
Answer option (b) 5000
9. Estimate of 26×10 to nearest hundred is **260**.
 26 to nearest hundred = 260

Chapter-7 Factors and Multiples

Topics	Learning Outcomes	Teaching Learning Activity	Questions on Hots
Concept of factors and multiples.	The students will be able to list the factors and multiples of various numbers.	The teacher can play a quiz with students and question them on factors and multiples	State the factors of 82.
HCF and LCM	The students will be able to calculate the HCF and LCM of the given numbers	Worksheets on finding common factors and multiples and hence find HCF and LCM	State the first 5 multiples of 11. Find the HCF and LCM of 18 and 36
Prime and composite number. Divisibility tests	The students will be able to test a number for divisibility and will also be able to identify prime and composite number.	Worksheets on divisibility test can be done.	Is 47 a composite or a prime number? Is it divisible by 3?
Calculation of factors by factor tree method and short division method	The students will be able to find the factors of a given number.	Worksheet on factors to be done (both method)	Draw the factor tree for 84.

Exercise 7.1

1. Find the factors of the following numbers using multiplication.

(a) 20

$$1 \times 20$$

$$2 \times 10$$

$$4 \times 5$$

factors of 20 = 1, 2, 4, 5, 10 and 20

(b) 35

$$1 \times 35$$

$$5 \times 7$$

factors of 35 = 1, 3, 7 and 35

- (c) 100
 1×100
 2×50
 4×25
 5×20
 10×10
 factors of 100 = 1, 2, 4, 5, 10, 20, 25
 and 100

- (d) 40
 2×20
 4×10
 5×8
 factors of 40 = 2, 4, 5, 8, 10 and 20

2. Find the factors the following numbers using division.

- (a) 24
 $24 \div 1 = 24$
 $24 \div 2 = 12$
 $24 \div 3 = 8$
 $24 \div 4 = 6$
 $24 \div 6 = 4$
 $24 \div 8 = 3$
 $24 \div 12 = 2$
 $24 \div 24 = 1$
 Factors of 24 = 1, 2, 3, 4, 6, 8, 12 and 24

- (a) 28
 $28 \div 1 = 28$
 $28 \div 2 = 14$
 $28 \div 4 = 7$
 $28 \div 7 = 4$
 $28 \div 14 = 2$
 $28 \div 28 = 1$
 Factors of 28 = 1, 2, 4, 7, 14 and 28

- (c) 21
 $21 \div 1 = 21$
 $21 \div 3 = 7$
 $21 \div 7 = 3$
 $21 \div 21 = 1$
 Factors of 21 = 1, 3, 7 and 21

- (d) 36
 $36 \div 1 = 36$
 $36 \div 2 = 18$
 $36 \div 3 = 12$
 $36 \div 4 = 9$
 $36 \div 9 = 4$
 $36 \div 12 = 3$
 $36 \div 18 = 2$
 $36 \div 36 = 1$
 Factors of 36 = 1, 2, 3, 4, 9, 12, 18
 and 36

3. Find the common factors of the following numbers.

- (a) 11 and 44
 factors of 11 = 1, 11
 factor of 44 = 1, 2, 4, 11
 Common factors of 11 and 44 = 11
- (b) 32 and 64
 factors of 32 = 1, 2, 4, 8, 16, 32
 factors of 64 = 1, 2, 4, 8, 16, 32, 64
 Common factors of 32 and 64 = 1, 2, 4, 8, 16 and 32

- (c) 24 and 42
 factor of 24 = 1, 2, 3, 4, 6, 8, 12 and 24
 factors of 42 = 1, 2, 3, 6, 7, 14, 21 and 42
 common factors of 24 and 42 = 1, 2, 3 and 6

4. Find the HCF of the following numbers.

- (a) 26 and 32
 factors of 26 = 1, 2, 13 and 26
 factors of 32 = 1, 2, 4, 8, 16 and 32
 HCF of 26 and 32 = 2 (Since 2 is the highest among the common factors)

- (b) 12, 36 and 18
 factors of 12 = 1, 2, 3, 4, 6, 12
 factors of 36 = 1, 2, 3, 4, 6, 9, 12, 18, 36
 factors of 18 = 1, 2, 3, 6, 9, 18
 HCF = 6 (Since 6 is the highest common factors of all 3 numbers)

- (c) 25, 19 and 10
 factors of 25 = 1, 5, 25
 factors of 19 = 1, 19
 factors of 10 = 1, 2, 5, 10
 HCF = 1 (Since 1 is the highest common factor)

- (d) 84 and 90
 factors of 84 = 1, 2, 3, 4, 6, 7, 12, 14, 21, 28, 42 and 84
 factor of 90 = 1, 2, 3, 5, 6, 9, 10, 15, 18, 30, 45, and 90
 HCF = 6

- (e) 16, 24 and 40
 factors of 16 = 1, 2, 4, 8, 16
 factors of 24 = 1, 2, 3, 4, 6, 8, 12, 24
 factors of 40 = 1, 2, 4, 5, 8, 10, 20, and 40
 HCF = 8

- (f) 24 and 48
 factors of 24 = 1, 2, 4, 6, 8, 12 and 24
 factors of 48 = 1, 2, 3, 4, 6, 8, 12, 16, 24, 48
 HCF = 24

5. Is 2 a factor of 280?

Yes 2 is a factor of 280 since 2 can exactly divide 280

6. Is 116 a factor of 2825?

No 116 is not a factor of 2825 since it is not perfectly divisible by 116.

Exercise 7.2

1. Find the first 5 multiples of the following.

(a) First 5 multiples of 13 = 13, 26, 39, 52 and 65

(b) First 5 multiples of 22 = 22, 44, 66, 88 and 110

(c) First 5 multiples of 9 = 9, 18, 27, 36, and 45

2. List the multiples of 2 between 7 and 19. = 8, 10, 12, 14, 16 and 18

3. Fill in the missing multiples below.

(a) 9, 18, 27, 36, 45, 42 (b) 3, 6, 9, 12, 15, 18, 21

(c) 5, 10, 15, 20, 25, 30, 35

4. Find two common multiples of the following pair of numbers.

(a) 4 and 8

Multiples of 4 = 4, **8**, 12, 16, 20, 24, 28, **32**, 36

Multiples of 8 = **8**, 16, 24, **32**

(b) 7 and 14

(c) 3, 6 and 12

5. Find the LCM.

(a) 16 and 24

Multiples of 16 = 16, 32, 48, 64, 80, 96, 112

Multiples of 24 = 24, 48, 72, 96, 120

LCM = 96

(b) 26 and 32

Multiples of 26 = 26, 52, 78, 104, 130, 156, 182, 208, 234, 260, 286

Multiples of 32 = 32, 64, 96, 128, 160, 192, 224, 256, 288, 320

LCM = 416

(c) 25 and 50

Multiples of 25 = 25, 50, 75, 100, 125

Multiples of 50 = 50, 100

LCM = 50

(d) 45 and 90

Multiples of 45 = 45, 90, 135

Multiples of 90 = 90, 180

LCM = 90

Do it yourself

1. Is 246 divisible by 4 ?

Check the last 2 digits of the number i.e 46 since it is not divisible by 4 the number 246 is not divisible by 4.

2. Is 135 divisible by 3 and 9 ?

$$\begin{aligned}\text{sum of digits} &= 1 + 3 + 5 \\ &= 9\end{aligned}$$

Since 9 is divisible by 3 and also by 9, the number 135 is divisible by both 3 and 9.

3. Is 2355 divisible by 10?

No, 2355 is not divisible by 10 since the last digit of the number do not end in zero.

Exercise 7.2

1. Check the divisibility of the following numbers.

(a) 5432 by 2

5432

Since the last digit of the number (i.e 2) is even the number 5432 is divisible by 2.

(b) 405 by 3

405

$$\begin{aligned}\text{Sum of digits} &= 4 + 0 + 5 \\ &= 9\end{aligned}$$

Since 9 is divisible by 3, the number 405 is divisible by 3.

(c) 255 by 4

255

Last 2 digits = 55

Since last 2 digits is not divisible by 4.

(d) 2644 by 3

2644

$$\begin{aligned}\text{Sum of digits} &= 2 + 6 + 4 + 4 \\ &= 16\end{aligned}$$

Since 16 is not divisible by 3, 2644 is not divisible by 3.

(e) 135 by 5

135

Since the last digit of 135 is 5, the number 135 is divisible by 5.

(f) 100 by 3

100

Since sum of digits = $1 + 0 + 0 = 1$, the number 100 is not divisible by 3.

2. Check whether 105 is divisible by 9 using divisibility test.

$$\text{Sum of digits} = 7 + 0 + 5 = 6$$

Since 6 is not divisible by a, the number 105 is not divisible by 5.

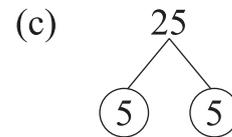
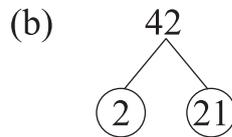
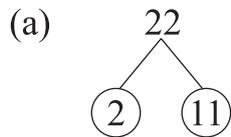
3. Is 2050 divisible by 10?

2050 is divisible by 10 since the last digit is 0

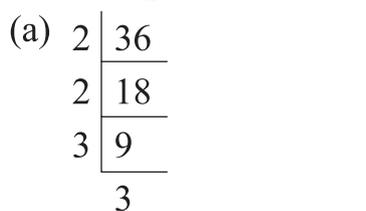
4. State whether the following number are composite or prime? One has been done for you.

- (a) 30 – composite (b) 7 – prime
(c) 21 – composite (d) 17 – prime
(e) 104 – composite (f) 97 – prime

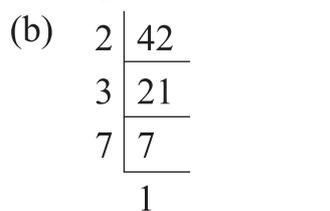
5. Find the prime factorisation by factor tree method.



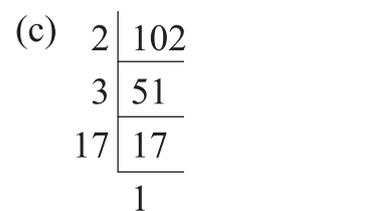
6. Find the prime factorisation by using short division method.



$36 = 2 \times 2 \times 3 \times 3$



$42 = 2 \times 3 \times 7$



$102 = 2 \times 3 \times 17$

SELF ASSESSMENT-7

1. Write the first 5 multiples of 4.

First 5 multiples of 4 = 4, 8, 12, 16 and 20

2. Find the factors of 25.

factors of 25 = 1, 5 and 25

3. Is 14 a factor of 252?

Yes, 14 is a factors of 252 (because 252 is exactly divisible by 14)

4. What are the common factors of 24 and 48?

Factors of 24 = 1, 2, 3, 4, 6, 8, 12 and 24

Factors of 48 = 1, 2, 3, 4, 6, 8, 12, 16, 24 and 48

Common factors = 1, 2, 3, 4, 6, 8, 12 and 24

5. Find the HCF of the following.

(a) 8 and 12.

factors of 8 = 1, 2, 4, 8

factors of 12 = 1, 2, 3, 4, 6, 12

HCF = 4 (since 4 is the highest common factor)

(b) 28, 42 and 56.

factors of 28 = 1, 2, 4, 7, 14 and 28

factors of 42 = 1, 2, 3, 6, 7, 14, 21 and 42

factors of 56 = 1, 2, 4, 7, 8, 14, 28 and 56

HCF = 14

6. Find the LCM of the following.

(a) 10 and 15

$$\text{Multiples of 10} = 10, 20, 30, 40$$

$$\text{Multiples of 15} = 15, 30, 45$$

$$\text{L.C.M} = 30$$

(b) 24 and 10

$$\text{Multiple of 24} = 24, 48, 72, 96, 120$$

$$\text{Multiples of 10} = 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120..$$

$$\text{L.C.M} = 120$$

7. Is 2463 divisible by 3? Is it also divisible by 9?

2463

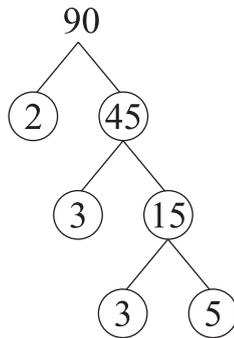
$$\text{Sum of digits} = 2 + 4 + 6 + 3$$

$$= 15$$

Since 15 is divisible by 3, the number 2463 is divisible by 3.

2463 is not divisible by 9 since the sum of the digits (i.e 15) is not divisible by 9.

8. Find the prime factorisation of 90 using tree factor method.



$$90 = 2 \times 3 \times 3 \times 5$$

9. Find the prime factorisation of 104.

$$\begin{array}{r} 2 \overline{) 104} \\ \underline{2} \\ 2 \\ \underline{2} \\ 13 \\ \underline{13} \\ 1 \end{array} \quad 104 = 2 \times 2 \times 2 \times 13$$

10. State the lowest common multiples of 6, 9 and 12.

$$\text{Multiple of 6} = 6, 12, 18, 24, 30, 36$$

$$\text{Multiple of 9} = 9, 18, 27, 36$$

$$\text{Multiple of 12} = 12, 24, 36$$

$$\text{Lowest common multiple (LCM)} = 36$$

11. Choose the correct option.

189 is divisible by 3 and 9.

since sum of digit is 18 (divisible by 3 and 9)

Answer : option (b)

12. 80 is a composite number.

Answer option (a)

13. Which of the following is a multiple of 5?

Answer option (c)

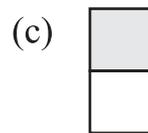
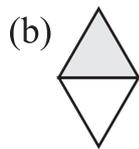
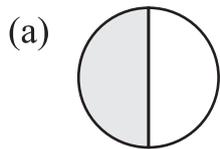
Chapter-8 Fractions

Topics	Learning Outcomes	Teaching Learning Activity	Questions on Hots
Knowledge of the Fractional numbers. Concept of fraction.	The students will be able to Understand the part or a fraction of the whole.	Paper folding Activity can be done with the students.	What is half of 4?
	Will be Able to shade the said part of the given shape.	Worksheet on Colour part or fraction of a Collection.	Shade 2/4 of the given figure.
	Will be Able to write the fractional number for the shaded part of the shape.	Worksheet on writing the fraction from shaded part.	Write the fraction of the shaded region.  $\frac{4}{6}$ $\frac{5}{6}$ $\frac{4}{5}$ $\frac{1}{6}$ $\frac{3}{5}$
Numerator and denominator of a fraction.	The students will be able to identify the Numerator and denominator of a fraction.	Worksheets on numerator and denominator .	In 2/6 is _____ the numerator and _____ is the denominator.
Types of Fractions (Like ,unlike ,equivalent and unit fraction.)	Will be able to understand the different types of fractions and find out equivalent fractions	Multiple type question on identifying the type of fraction.	Identify and group the like and unlike fraction 2/3,1/3,3/8,1/5

<p>Comparison, Addition and subtraction of like fractions</p>	<p>To be able to solve word problems involving fractions. The students will be able to compare two fractions, add and subtract two fraction.</p>	<p>Worksheet on comparison, addition and subtraction of fractions</p>	<p>Solve: $2/5 + 1/5 =$ $3/8 - 1/8 =$</p>
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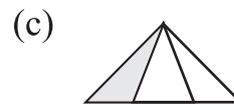
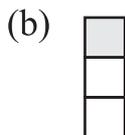
Exercise 8.1

1. Colour the half of the given shape.



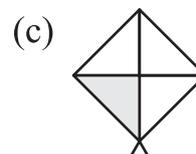
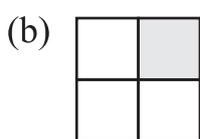
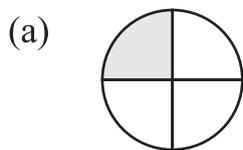
(Hint : Colour one part out of two parts =)

2. Colour one third of the given shape.



(Hint : = one part of 3 parts.)

3. Colour $\frac{1}{3}$ one fourth of the given shape.



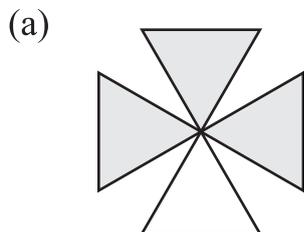
(Hint : $\frac{1}{4}$ = one part out of 4 parts.)

4. Colour one third of the given figure.

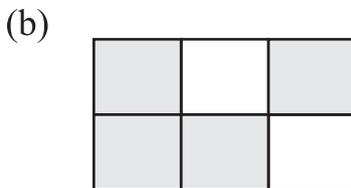


Exercise 8.2

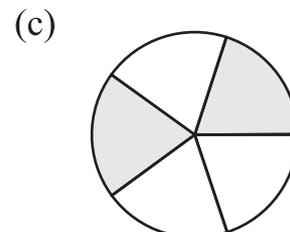
1. Write the fraction for the shaded portion.



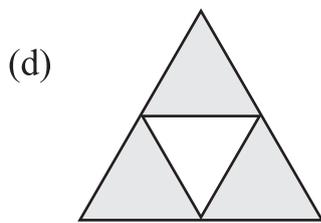
$\frac{3}{4}$



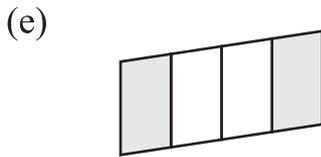
$\frac{4}{6}$



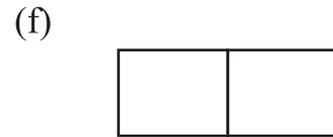
$\frac{2}{5}$



$$\frac{3}{4}$$

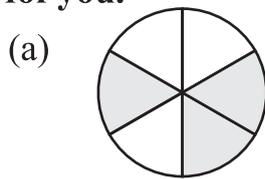


$$\frac{2}{4}$$

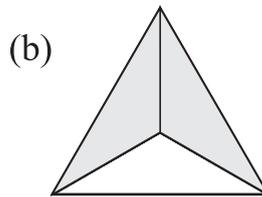


$$\frac{0}{2}$$

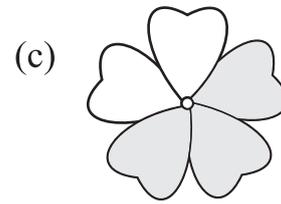
2. Shade the parts of the following figure to acquire the given fraction : One has been done for you.



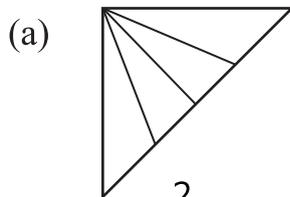
$$\frac{3}{6}$$



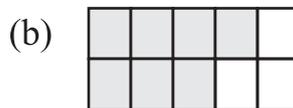
$$\frac{2}{6}$$



$$\frac{3}{5}$$



$$\frac{2}{4}$$



$$\frac{7}{10}$$



$$\frac{5}{6}$$

3. Complete the following table.

S.No.	Numerator	Denominator	Fraction
(a)	3	5	$\frac{3}{5}$
(b)	5	7	$\frac{3}{5}$
(c)	9	13	$\frac{9}{13}$
(d)	7	9	$\frac{7}{9}$
(e)	6	11	$\frac{6}{11}$

4. Write the fractions for each of the following.

(a) Four-ninth = $\frac{4}{9}$

(b) Two-fifth = $\frac{2}{5}$

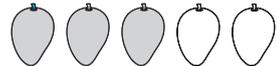
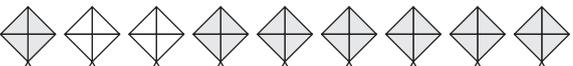
(c) One-twelfth = $\frac{1}{12}$

(d) five-eighth = $\frac{5}{8}$

(e) seven-tenth = $\frac{7}{10}$

(e) one-fifth = $\frac{1}{5}$

5. Write the coloured fraction of the given collection.

(a)		$\frac{4}{8}$
(b)		$\frac{3}{5}$
(c)		$\frac{5}{7}$
(d)		$\frac{7}{9}$

6. Out of 8 books, Amit read 5 books. What fraction of the books has he read?

$$\frac{5}{8}$$

7. Out of 35 students in a class, 15 are girls. What fraction of students are girls?

$$\frac{15}{35}$$

8. In a party, there were 16 pizza pieces, out of these Angela ate 5 pieces and Ron ate 9 pieces. What fraction did each eat?

Angela = $\frac{5}{16}$

Ron = $\frac{9}{16}$

9. Write the numerator and denominator for the following fractions.

S.No.	Fraction	Numerator	Denominator
(a)	$\frac{9}{11}$	6	11
(b)	$\frac{9}{16}$	9	16
(c)	$\frac{2}{7}$	2	7
(d)	$\frac{11}{13}$	11	13
(e)	$\frac{19}{23}$	19	23

Exercise 8.3

1. Identify the like fractions.

(a) $\frac{2}{5}$ and $\frac{6}{5}$ are like fractions

(b) $\frac{2}{14}, \frac{6}{14}, \frac{7}{14}$ are like fractions

(c) $\frac{2}{4}, \frac{6}{14}, \frac{7}{14}$ are like fractions

2. Identify the unlike fractions.

(a) $\frac{2}{6}$ and $\frac{4}{6}$ are like fractions

(b) $\frac{4}{9}$, $\frac{7}{16}$, $\frac{2}{7}$ are unlike fractions

(c) $\frac{4}{16}$, $\frac{2}{18}$, $\frac{9}{27}$ and $\frac{3}{4}$ are unlike fractions

3. Identify the unit fractions.

$\frac{1}{16}$ (b), $\frac{1}{6}$ and $\frac{1}{9}$ are unit fractions (unit fractions have unit fractions as 1)

4. Write two equivalent fractions for the following.

(a) $\frac{2}{7} \times \frac{2}{2} = \frac{4}{14}$ and $\frac{2}{7} \times \frac{3}{3} = \frac{6}{21}$

(b) $\frac{1}{9} \times \frac{2}{2} = \frac{2}{18}$ and $\frac{1}{9} \times \frac{3}{3} = \frac{3}{27}$

Ans. $\frac{4}{14}$ and $\frac{6}{21}$

Ans. $\frac{2}{18}$ and $\frac{3}{27}$

(c) $\frac{3}{16} \times \frac{2}{2} = \frac{6}{32}$ and $\frac{3}{16} \times \frac{3}{3} = \frac{9}{48}$

(d) $\frac{4}{12} \times \frac{2}{2} = \frac{8}{24}$ and $\frac{4}{12} \times \frac{3}{3} = \frac{9}{36}$

Ans. $\frac{6}{32}$ and $\frac{9}{48}$

Ans. $\frac{8}{24}$ and $\frac{9}{36}$

5. Write three equivalent fractions for the following.

(a) $\frac{3}{5} \times \frac{2}{2} = \frac{6}{10}$; $\frac{3}{5} \times \frac{3}{3} = \frac{9}{15}$ and $\frac{3}{5} \times \frac{4}{4} = \frac{12}{20}$

(b) $\frac{4}{10} \times \frac{2}{2} = \frac{8}{20}$; $\frac{4}{10} \times \frac{3}{3} = \frac{12}{30}$ and $\frac{4}{10} \times \frac{4}{4} = \frac{16}{40}$

Ans. $\frac{6}{10}$, $\frac{9}{15}$ and $\frac{12}{20}$

Ans. $\frac{8}{20}$, $\frac{12}{30}$ and $\frac{16}{40}$

(c) $\frac{1}{9} \times \frac{2}{2} = \frac{2}{18}$, $\frac{1}{9} \times \frac{3}{3} = \frac{3}{27}$ and $\frac{1}{9} \times \frac{4}{4} = \frac{4}{36}$

(d) $\frac{7}{11} \times \frac{2}{2} = \frac{14}{22}$, $\frac{7}{11} \times \frac{3}{3} = \frac{21}{33}$ and $\frac{7}{11} \times \frac{4}{4} = \frac{28}{44}$

Ans. $\frac{2}{18}$, $\frac{3}{27}$ and $\frac{4}{36}$

Ans. $\frac{14}{22}$, $\frac{21}{33}$ and $\frac{28}{44}$

Exercise 8.4

1. Compare the following fractions by using > or < sign.

(a) $\frac{4}{5} < \frac{8}{5}$

(b) $\frac{7}{6} > \frac{2}{6}$

(c) $\frac{12}{13} > \frac{8}{13}$

(d) $\frac{9}{12} < \frac{11}{12}$

(e) $\frac{13}{19} > \frac{11}{19}$

2. Arrange the following fractions in ascending order.

(a) $\frac{2}{5}, \frac{8}{5}, \frac{1}{5}$

On comparison of the numerators $1 < 2 < 8$

$$\therefore \frac{1}{5} < \frac{2}{5} < \frac{8}{5}$$

(b) $\frac{12}{15}, \frac{8}{15}, \frac{17}{15}$

On comparison, $8 < 12 < 17$

$$\therefore \frac{8}{15} < \frac{12}{15} < \frac{17}{15}$$

3. Arrange the following fractions in descending order.

(a) $\frac{2}{13}, \frac{6}{13}, \frac{12}{13}, \frac{1}{13}$

On comparison, $12 > 6 > 2 > 1$

\therefore Fractions in descending order are $\frac{12}{13}, \frac{6}{13}, \frac{2}{13}, \frac{1}{13}$

(b) $\frac{9}{18}, \frac{7}{18}, \frac{1}{18}, \frac{12}{18}$

On comparison, $12 > 9 > 7 > 1$

$$\therefore \frac{12}{18} > \frac{9}{18} > \frac{7}{18} > \frac{1}{18}$$

The Fractions in descending order are $\frac{12}{18}, \frac{9}{18}, \frac{7}{18}, \frac{1}{18}$

4. Add the following.

(a) $\frac{6}{15} + \frac{7}{15}$

$$= \frac{6+7}{15}$$

$$= \frac{13}{15}$$

(b) $\frac{3}{4} + \frac{2}{4}$

$$= \frac{3+5}{4}$$

$$= \frac{8}{4}$$

(c) $\frac{3}{12} + \frac{7}{12}$

$$= \frac{3+7}{12}$$

$$= \frac{10}{12}$$

(d) $\frac{4}{2} + \frac{1}{2}$

$$= \frac{4+1}{2}$$

$$= \frac{5}{2}$$

5. Subtract the following.

$$(a) \quad \frac{9}{12} - \frac{4}{12}$$

$$= \frac{9-4}{12}$$

$$= \frac{5}{12}$$

$$(b) \quad \frac{6}{13} - \frac{4}{13}$$

$$= \frac{6-4}{13}$$

$$= \frac{2}{13}$$

$$(c) \quad \frac{17}{23} - \frac{8}{23}$$

$$= \frac{17-8}{23}$$

$$= \frac{11}{23}$$

$$(b) \quad \frac{8}{8} - \frac{2}{8}$$

$$= \frac{8-2}{8}$$

$$= \frac{6}{8}$$

6. Kriti ordered a pizza, she ate $\frac{2}{4}$ and her sister ate $\frac{1}{4}$. What fraction of pizza did both eat together?

$$\text{Kirti ate} = \frac{2}{4}$$

$$\text{Her sister} = \frac{1}{4}$$

$$\text{Total} = \frac{2}{4} + \frac{1}{4}$$

$$= \frac{3}{4}$$

$\therefore \frac{3}{4}$ Part of pizza was eaten by both together.

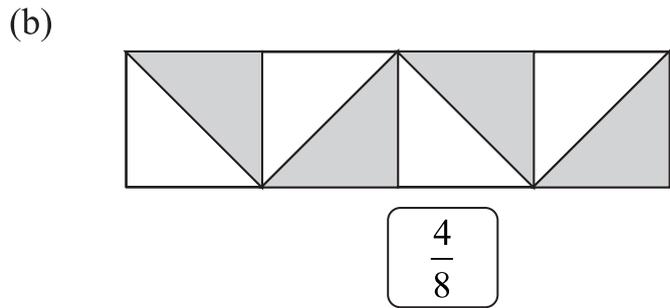
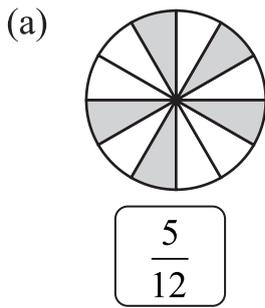
7. A packet of cookies contains 15 biscuits. 7 biscuits were broken. What fraction of biscuits were broken?

$$\text{No of biscuits broken} = 7 \text{ out of } 15$$

$$\therefore \text{fraction of broken biscuit} = \frac{7}{15}$$

SELF ASSESSMENT-8

1. Write the fraction for the shaded parts.



2. Write the numerator and denominator for the following fractions.

(a) $\frac{7}{18}$

numerator = $\boxed{7}$
 denominator = $\boxed{18}$

(b) $\frac{9}{14}$

numerator = $\boxed{9}$
 denominator = $\boxed{14}$

3. State whether the following pair of fractions are like or unlike.

(a) $\frac{7}{2}, \frac{9}{4}$: unlike

(b) $\frac{6}{7}, \frac{9}{7}$: like

(c) $\frac{2}{5}, \frac{5}{2}, \frac{9}{4}$: unlike

(d) $\frac{4}{11}, \frac{1}{11}, \frac{8}{11}$: like

4. What is half of 16?

$$16 \div 2 = 8$$

5. What is $\frac{1}{3}$ of 15 chocolates?

$$15 \div 3 = 5$$

6. Fill in the boxes:

(a) $\frac{2}{6} = \frac{\boxed{8}}{24}$

(b) $\frac{2}{3} = \frac{\boxed{10}}{15}$

(c) $\frac{\boxed{4}}{20} = \frac{1}{5}$

7. Add the following.

(a) $\frac{5}{7} + \frac{6}{7} = \frac{\boxed{11}}{\boxed{7}}$

(b) $\frac{2}{5} + \frac{7}{5} = \frac{\boxed{9}}{\boxed{5}}$

(c) $\frac{1}{18} + \frac{7}{18} = \frac{\boxed{8}}{\boxed{18}}$

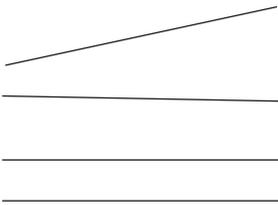
8. Subtract the following.

(a) $\frac{7}{16} - \frac{2}{16} = \frac{\boxed{5}}{\boxed{16}}$

(b) $\frac{13}{81} - \frac{12}{81} = \frac{\boxed{1}}{\boxed{81}}$

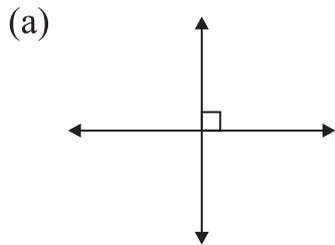
(c) $\frac{82}{105} - \frac{13}{105} = \frac{\boxed{69}}{\boxed{105}}$

Chapter-9 Lines and circles

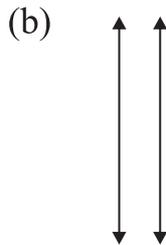
Topics	Learning Outcomes	Teaching Learning Activity	Questions on Hots
Concept of point, line, line segment, ray and drawing of line segments.	The students will be able to differentiate ray, line, line segment. They will also be able to draw line segments of a given measurement.	Worksheet on line, line segment, ray etc.	identify as ray and line segment 
Types of intersecting lines.(perpendicular and parallel lines)	The students will be able to identify perpendicular and parallel lines.	Using straws demonstrate perpendicular and parallel lines.	Identify as perpendicular and parallel line. 
Concept and terms related to circle(center, radius and diameter)	Students will be familiar with the terms of circle and the relation of diameter and radius.	Ask the children to draw a circle and label the parts of a circle.	If the radius of the circle is 12cm what is the diameter?
Relation between radius and diameter			

Exercise 9

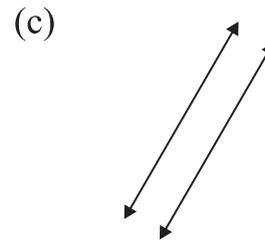
1. Write each pair of lines as intersecting, perpendicular or parallel lines.



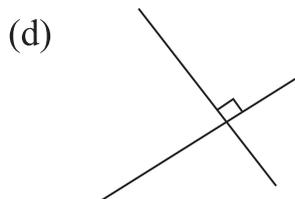
Perpendicular



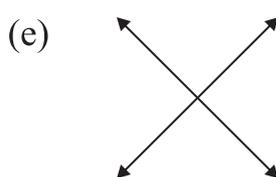
Parallel



Parallel



Perpendicular



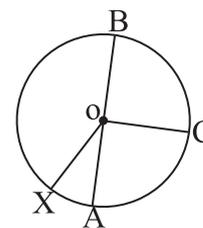
intersecting



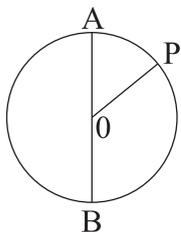
intersecting

2. What does each of the following represent in the given circle?

- (a) AB is the **diameter** of the circle.
- (b) O is the **centre** of the circle.
- (c) OC is the **radius** of the circle.
- (d) OX is the **radius** of the circle.



3. Draw a circle with centre O. Mark the radius as OP and the diameter as AB.



4. If the radius of a circle is 5 cm, find the diameter.

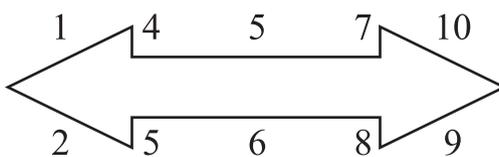
$$\begin{aligned} \text{radius} &= 5 \text{ cm} \\ \text{deiameter} &= 2 \times \text{radius} \\ &= 2 \times 5 \\ &= 10 \text{ cm} \end{aligned}$$

5. The diameter of a circle is 18 cm. What will be the radius?

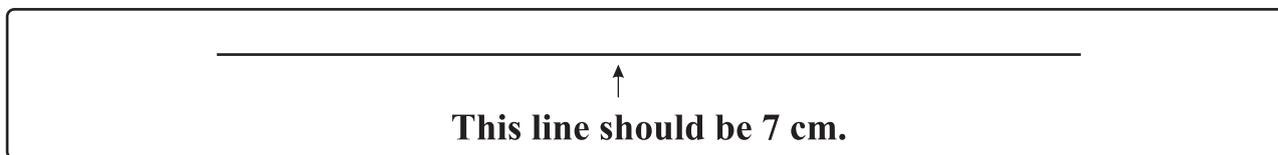
$$\begin{aligned} \text{Diamter} &= 18 \text{ cm} \\ \text{radius} &= \text{deiameter} \div 2 \\ &= 18 \div 2 \\ &= 9 \text{ cm} \\ \therefore \text{radius} &= 9 \text{ cm} \end{aligned}$$

SELF ASSESSMENT-9

1. How many line segments are there in the given shape?

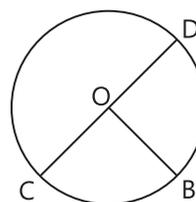


2. Draw a line segment of 7 cm.



3. Fill in the blanks.

- (a) OC is the **radius** of the circle.
- (b) **CD** is the diameter.
- (c) **O** is the centre of the circle.

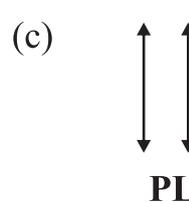
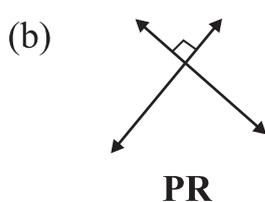
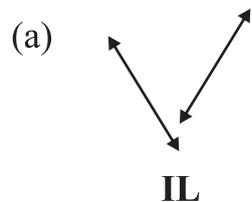


4. If the radius of a circle is 3cm, find the diameter.

radius 3cm diameter

diameter $3 \times 2 = 6\text{cm}$

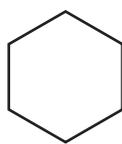
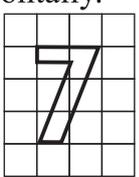
5. Write 'I' for intersecting lines, 'PL' for parallel line and 'PR' for perpendicular lines.



6. If the diameter of a circle is 14 cm. Its radius is 7 cm.

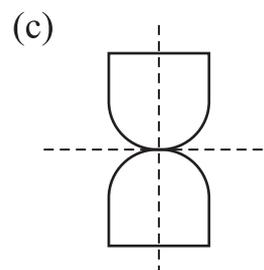
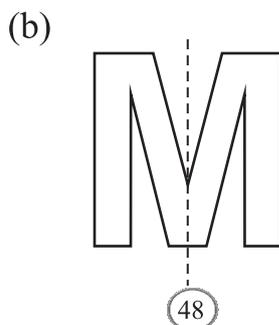
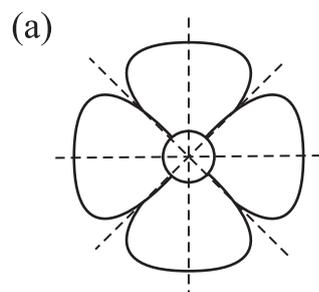
Answer. option (b) 7 cm.

Chapter-10 Symmetry And Reflection

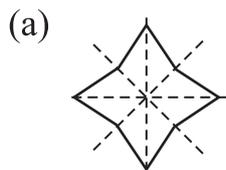
Topics	Learning Outcomes	Teaching Learning Activity	Questions on Hots
Concept of symmetry. Horizontal and vertical lines of symmetry of various objects, figures, letters and alphabets.	The students will be able to identify the lines of symmetry (horizontal and vertical) and count the number of lines of symmetry.	The ink blot test can be done with the students. Take a piece of paper and using paint draw the figure given below. Fold the paper and see the result.	Is the given figure symmetrical? If yes draw the lines of symmetry. 
Concept of reflection and reflection symmetry	The students will be able to reflect figures.	Activity on reflection. Take a small mirror and try reflecting various figures.	Reflect the given figure vertically and horizontally. 

Exercise 10.1

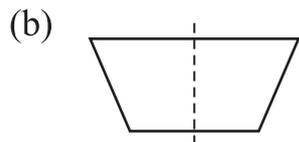
1. Draw lines of symmetry of the following shape.



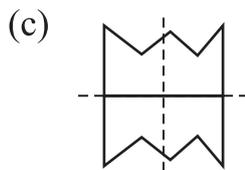
2. How many lines of symmetry do the following figures have? One has been done for you.



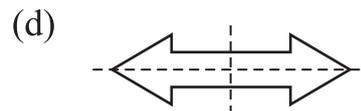
4 Lines



1 Line

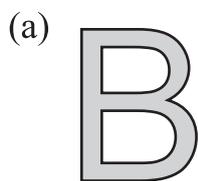


2 Lines

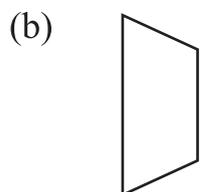


2 Lines

3. Are the following figures symmetrical?



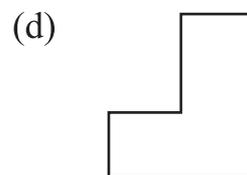
Yes
symmetrical



Yes
symmetrical



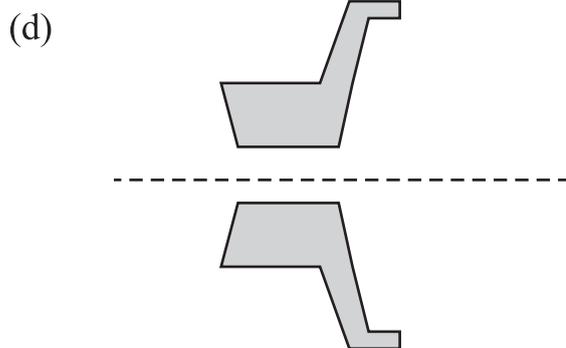
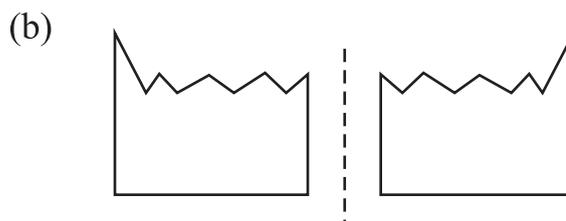
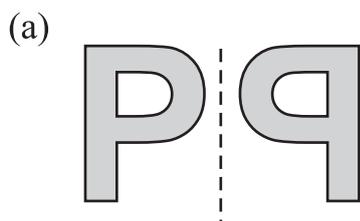
No, not
symmetrical



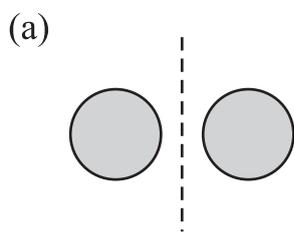
No, not
symmetrical

Exercise 10.2

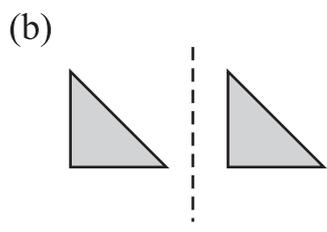
1. Draw the reflection of the following figures along the line of reflection.



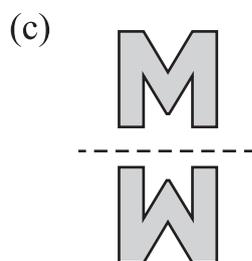
2. Do the following figures show reflection symmetry?



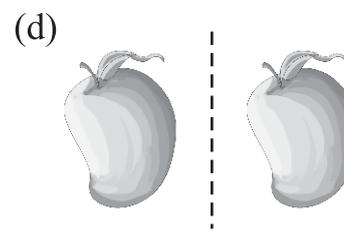
Yes



No



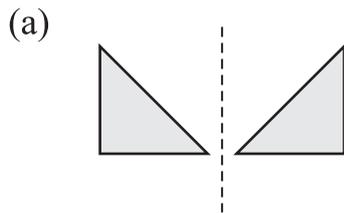
Yes



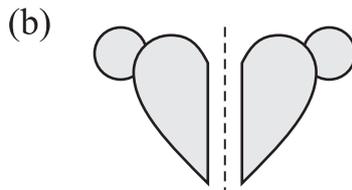
No

SELF ASSESSMENT-10

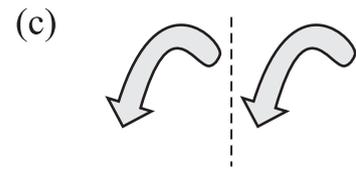
1. Identify the pairs that show reflection.



shows reflection

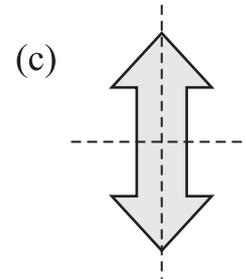
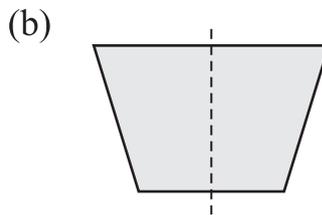
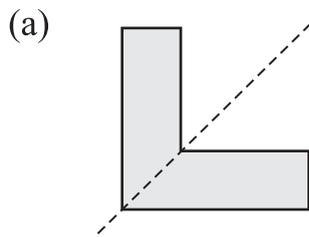


shows reflection

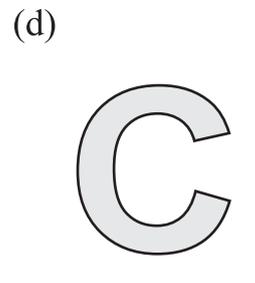
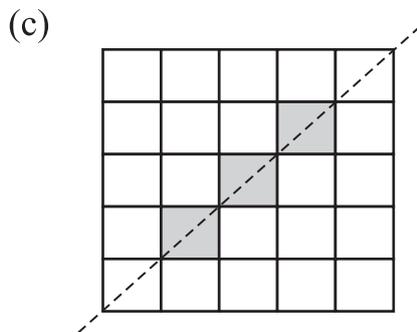
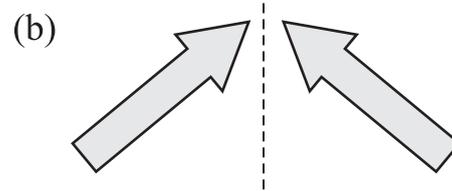


Do not shows reflection

2. Draw the lines of symmetry for the following figures.

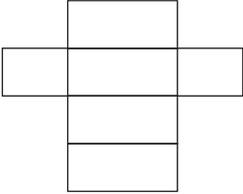


3. Draw the mirror images for the following.



Chapter-11 Shapes and patterns

Topics	Learning Outcomes	Teaching Learning Activity	Questions on Hots
Plane figures and solid figures.	The students will be able to identify palne figures and solid figures like circle, square, cube, cuboid,sphere etc	Students may show object and ask the students the identify the solid shape.	 Identify the shape?

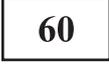
<p>Faces, vertex, edges and nets of solid figures like cube, cuboid etc</p>	<p>The students will be able to answer how many faces, edges and vertices does a shape have. The students will also be able to identify the nets of solid shape.</p>	<p>Help the students to cut out the net of various solid shape. Ask the student to join the net to form the solid shape.</p>	<p>Is this the net for a cube?</p> 
<p>Recognizing rules in Different number And alphabet patterns.</p>	<p>The students will be able to identify the pattern and complete the pattern.</p>	<p>Worksheet on complete the pattern to be done.</p>	<p>Complete the pattern 365,476,587,___</p>
<p>Tessellation: Identifying patterns in surrounding. e.g. bedsheet, grill and tiles. Makes pattern And designs of own</p>	<p>The students will be able to create patterns of the own</p>	<p>Worksheet on tessellation can be done.</p>	<p>Visit a garden garden to see the pattern of flowers and leaves. Draw the pattern of flower in your exercise book.</p>

LOOK BACK

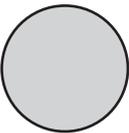
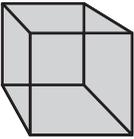
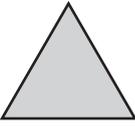
1. Observe the pattern and draw or write what should come next.

- (a) 
- (b) **A B B A B B A B B** 
- (c) **1 2 3 1 2 3 1 2 3** 

2. Observe the number pattern and write the next number in the sequence.

- (a) **3 6 9 12**  
- (b) **10 20 30 40**  
- (c) **11 22 33 44**  

3. Name the following shapes.

- (a)  **circle**
- (b)  **cube**
- (c)  **triangle**

Exercise 11.1

1. Fill in the blanks.

- (a) A cylinder has **two** flat surface.
- (b) A sphere has **no** flat surface.
- (c) A cuboid has **eight** vertex.
- (d) A cone has **one** vertex and **1** flat surface.
- (e) A cube has **twelve** edges.

2. Identify the shapes of the following objects.

(a)



sphere

(b)



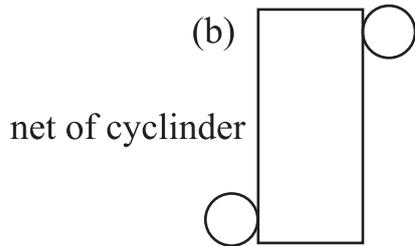
cuboid

(c)

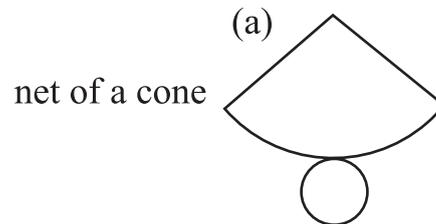


cone

3. Choose the correct net of a cylinder.



4. Which of the following is not a net of a cone?



Do it yourself

4. Write the following words using the codes given above.

(a) HAPPY –

81 16 16 25

(b) SURPRISE –

19 21 18 16 189 195

(c) MOM –

13 15 13

(d) IAM GOING TO THE MARKET –

9 113 715 9147 2015 2085

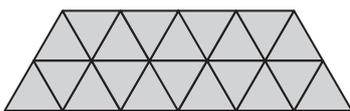
(e) HE IS A GOOD BOY –

85 918 1 715 154 215 25

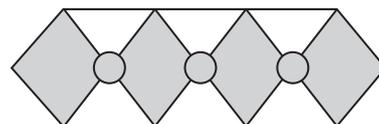
Exercise 11.2

1. Complete the tessellations by colouring.

(a)



(b)



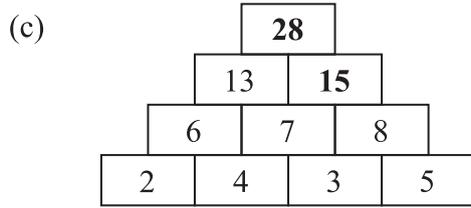
2. Fill in the blanks to complete the pattern.

(a)

346	446	546	646	746	846	946
-----	-----	------------	-----	-----	-----	------------

(b)

423	534	645	756	867	978
-----	-----	-----	------------	------------	-----



(d)

34P	35Q	36R	37S	38T	39L
-----	-----	------------	------------	-----	------------

(e)

765	665	565	465	365	265
-----	-----	------------	-----	------------	------------

3. Create number patterns of your own.

(a)

--	--	--	--	--

(b)

--	--	--	--	--

4. Observe the pattern and fill in the blanks.

$$1 \times 1 = 1$$

$$11 \times 11 = 121$$

$$111 \times 111 = 12321$$

$$1111 \times 1111 = 1234321$$

$$11111 \times 11111 = 123454321$$

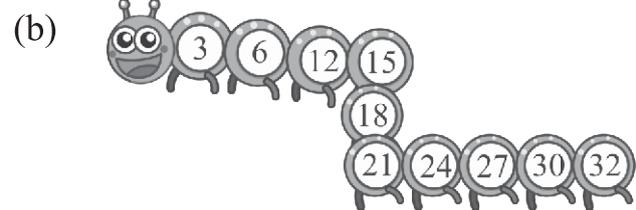
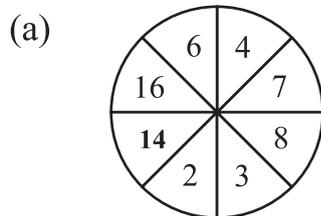
SELF ASSESSMENT-11

1. Write the next number in the pattern.

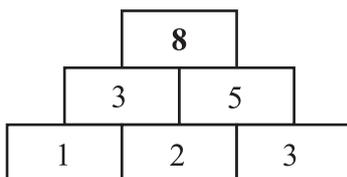
(a) 29,35,41,47, **53**, **59**

(b) 7,17,27,**37**, **47**

2. Study the patterns and fill in the missing terms.



4. Fill in the blanks to complete the pattern.



Chapter-12 measurement

Topics	Learning Outcomes	Teaching Learning Activity	Questions on Hots
Units of measurement of length.	Students will be able to measure the length of various objects.	Teacher can ask the students to measure length of class window, door etc	
Conversion of units (kilometre into metre and vice versa)	The students will be able to convert metre into kilometre and vice-versa.	Worksheet on conversion of units.	10km = metre $\frac{1}{2}$ km =metre 5264m = ___ km ___ m
Addition and subtraction of units of weight	Students will be able to add weights of two or more objects.	Worksheet on addition and subtraction of units.	A man travelled 27km 425m on Monday and 32km750m on tuesday. How much distance did he travel in all?
Correct use of units metre/kilometre	Students will be able to identify correct use of units.	Teacher may give an object and ask the appropriate unit of length.	
Units of measurement of weight.	Students will be able to read the weights written on various packed items.	Teacher will show packed objects and asked students to read weights written on them.	
Conversion of units (kilogram into grams and vice versa)	The students will be able to convert grams into kilograms and vice-versa.	Worksheet on conversion of units.	1kg = Grams $\frac{1}{2}$ kg =Grams 5000grams =kg
Addition and subtraction of units of weight	Students will be able to add weights of two or more objects.	Worksheet on addition and subtraction of units.	A shopkeeper has 28kg 425 g of sugar in his stock. He sold 42kg750g of it. How much sugar is left with him?
Correct use of units grams/kilograms	Students will be able to identify correct use of units.	Teacher will show packed objects and asked students to read weights written on them. Teacher may give an object and ask the appropriate unit of weight.	

Units of measurement of capacity.	Students will be able to measure capacity of various containers.	Teacher can show A bottle or a container and ask students to read the capacity written on them.	What is the capacity of a pet bottle of cold drink?
Conversion of units (kilogram into grams and vice versa)	The students will be able to convert grams into kilograms and vice-versa.	Worksheet on conversion of units.	12L = mL 5015mL =L__ mL
Addition and subtraction of units of capacity	Students will be able to add capacity of two or more objects.	Worksheet on addition and subtraction of units.	A tank has a capacity of 128L. 98L255mL of water was used. How much water is left in the tank?
Multiplication and division of units of weight, length and capacity.	The students will be able to divide and multiply the units of weight, length and capacity	Worksheets on multiplication and division.	2564mL X 2 = _____
Conversion of units of time (hours, minutes and seconds)	The students will be able to convert one unit of time to another.	Worksheets on conversion of time.	35hours = ___ minutes. 14mins = _____ seconds
Concept of A.M. and P.M.	Students will be able to differentiate between AM and PM	Teachers may show pictures of activities and ask which part of the day it is done (AM or PM)	Rahul went to school at 7:45 _____ (AM or PM)

Exercise 12.1

1. Which unit (kg, g, km, m, cm, L or mL) would you use to measure the following.

- (a) Length of a pencil : **cm**
- (b) Distance between home and school : **km**
- (c) Weight of a ball : **g**
- (d) Capacity of a jug : **L**
- (e) Weight of a pencil : **g**

2. Convert the following.

(a) 2m into cm
= 2×100 (since $1\text{m} = 100\text{cm}$)
= 200 cm

(c) 12L into mL
= 12×1000 ($1\text{L} = 1000\text{mL}$)
= 12000 mL

(b) 15kg to g
= 15×1000 ($1\text{kg} = 1000\text{g}$)
= 15000 g

Exercise 12.2

1. Convert the following.

(a) 23 km to m
= 23×1000 ($1\text{km} = 1000\text{m}$)
= 23000 m.

(c) 3949 m to km and m
= $3949 \div 1000$
= 3 km 949 m

(e) 83 m to cm
= 83×100
= 8300 cm

(b) 49000 m to km
= $49000 \div 1000$
= 49 km.

(d) 3400 cm to m.
= $3400 \div 100$ ($1\text{m} = 100\text{cm}$)
= 34 m

(f) 246 cm to m and cm
= $246 \div 100$
= 2 m and 46 cm

2. Add the following.

(a)

12 km 000 m
+ 24 km 640 m
36 km 640 m

(c)

40 km 250 m
+ 13 km 150 m
53 km 400 m

(b)

14 km 800 m
+ 6 km 200 m
11 km 000 m

(d)

2 km 180 m
+ 18 km 200 m
20 km 380 m

3. Subtract.

(a)

60 km 000 m
- 42 km 000 m
18 km

(c)

361 km 350 m
- 24 km 000 m
12 km 350 m

(b)

70 km 1200 m
- 18 km 400 m
51 km 800 m

(d)

7 m 1000 cm
- 15 cm
6 m 985 cm

4. Sophie had a cloth of 9 m 80 cm. She cut out 2 m 50 cm from it to stitch a dress. How much cloth is left with her now?

Sophie had 9 m 80 cm of cloth

Sophie cut off 2 m 50 cm

$$\begin{aligned} \text{Length of cloth left} &= 9 \text{ m } 80 \text{ cm} - 2 \text{ m } 50 \text{ cm} \\ &= 7 \text{ m } 30 \text{ cm} \end{aligned}$$

9 m 80 cm
- 2 m 50 cm
7 m 30 cm

∴ 7 m 30 cm of cloth is left.

5. A statue is 7 m 80 cm tall, it is placed on a raised platform of height 95 cm. Calculate the total height of the statue.

$$\begin{aligned} \text{Height of statue} &= 7 \text{ m } 80 \text{ cm} \\ \text{Height of platform} &= + 95 \text{ cm} \\ \text{Total height of statue} &= 8 \text{ m } 75 \text{ cm} \end{aligned}$$

∴ Height of statue is 8 m 75 cm.

Exercise 12.2

1. Convert the following.

(a) 18 kg into g

$$\begin{aligned} &= 18 \times 1000 \\ &= 18000 \text{ g} \end{aligned}$$

(b) 47 kg 155 g into g

$$\begin{aligned} &= 47 \times 1000 + 155 \\ &= 47000 + 155 \\ &= 47155 \text{ g} \end{aligned}$$

(c) 3000 g into kg and g

$$\begin{aligned} &= 3000 \div 1000 \\ &= 3 \text{ kg} \end{aligned}$$

(d) 8215 g into kg and g.

$$\begin{aligned} &= 8215 \div 1000 \\ &= 8 \text{ kg } 215 \text{ g} \end{aligned}$$

(e) 14263 g into kg and g

$$\begin{aligned} &= 14263 \div 1000 \\ &= 14 \text{ kg } 263 \text{ g} \end{aligned}$$

2. Add the following.

(a)

25 kg 125 g
+ 18 kg 255 g
43 kg 380 g

(b)

13 kg 040 g
+ 4 kg 350 g
17 kg 390 g

(c)

9 kg 000 g
+ 0 kg 236 g
9 kg 236 g

(d)

13 kg 005 g
+ 26 kg 050 g
39 kg 055 g

3. Subtract :

$$\begin{array}{r} \text{(a)} \quad 92 \text{ kg } 150 \text{ g} \\ + 80 \text{ kg } 000 \text{ g} \\ \hline 12 \text{ kg } 150 \text{ g} \end{array}$$

$$\begin{array}{r} \text{(b)} \quad 12 \text{ kg } 150 \text{ g} \\ + 9 \text{ kg } 375 \text{ g} \\ \hline 2 \text{ kg } 875 \text{ g} \end{array}$$

$$\begin{array}{r} \text{(c)} \quad 40 \text{ kg } 723 \text{ g} \\ + 25 \text{ kg } 368 \text{ g} \\ \hline 15 \text{ kg } 355 \text{ g} \end{array}$$

$$\begin{array}{r} \text{(d)} \quad 12 \text{ kg } 250 \text{ g} \\ + 9 \text{ kg } 150 \text{ g} \\ \hline 3 \text{ kg } 100 \text{ g} \end{array}$$

4. Mrs. Kumar went to the market, she bought 15 kg 500 g of rice and 4 kg sugar. What is the total weight she will have to carry with her?

$$\begin{array}{r} \text{Weight of rice} = 15 \text{ kg } 500 \text{ g} \\ \text{Weight of sugar} = + 4 \text{ kg } 000 \text{ g} \\ \hline \text{Total weight} = 19 \text{ kg } 500 \text{ g} \end{array}$$

∴ Mrs Kumar carries 19 kg 500 g of weight

5. A vegetable seller has 18 kg 200 g of potatoes. He sold 14 kg 150 g. What weights of potatoes is left with him now?

$$\begin{array}{r} \text{Quality of potatoes vegetable seller has} = 18 \text{ kg } 200 \text{ g} \\ \text{Quality of potatoes sold} = - 14 \text{ kg } 150 \text{ g} \\ \hline \text{Quality of potatoes left} = 4 \text{ kg } 50 \text{ g} \end{array}$$

∴ 4 kg 50 g of potatoes are left.

6. A bag of flour weighs 7 kg. If a chef needs 2 kg 400g of flour to bake, how much flour is left in the bag?

$$\begin{array}{r} \text{Quality of flour is the bag} = 7 \text{ kg } 1000 \text{ g} \\ \text{Quality of flour used for baking} = - 2 \text{ kg } 400 \text{ g} \\ \hline \text{Quality of flour left} = 4 \text{ kg } 600 \text{ g} \end{array}$$

∴ 4 kg 600 of flour is left is the bag.

Exercise 12.3

1. Convert.

$$\begin{aligned} \text{(a)} \quad 2 \text{ L } 136 \text{ mL into mL} \\ = 2 \times 1000 + 136 \\ = 2136 \text{ mL} \end{aligned}$$

$$\begin{aligned} \text{(b)} \quad 36 \text{ L } 7 \text{ mL into mL} \\ = 36 \times 1000 + 7 \\ = 36007 \text{ mL} \end{aligned}$$

(c) 3180 mL into L and mL

$$\begin{aligned} &= 3180 \div 1000 \\ &= 3 \text{ L } 180 \text{ mL} \end{aligned} \quad \begin{array}{r} 3\text{L} \\ 1000 \overline{) 3180} \\ \underline{3000} \\ 180 \text{ mL} \end{array}$$

(d) 24134 mL into L and mL

$$\begin{aligned} &= 24134 \div 1000 \\ &= 24 \text{ L } 134 \text{ mL} \end{aligned}$$

2. Add the following.

(a)

2 L 125 mL
– 6 L 270 mL
8 L 395 mL

(b)

27 L 468 mL
– 19 L 854 mL
47 L 322 mL

(c)

19 L 240 mL
– 20 L 000 mL
39 L 240 mL

3. Subtract.

(a)

2 L 025 mL
– 050 mL
1 L 975 mL

(b)

29 L 101 mL
– 18 L 241 mL
11 L 160 mL

(c)

38 L 125 mL
– 9 L 120 mL
29 L 005 mL

4. A watering can has 4 litres of water. If 2L 350mL of water is used to water the plants, what quantity of water is left in the can?

Quality of water in the watering can =

4 L 1000 mL

Quality of water in used =

– 2 L 350 mL
1 L 650 mL

∴ 1 L 650 mL of water is left in the can.

5. An oil tanker has 89L 250mL of oil. It distributes 15L 850mL oil at one station and 50L at another station. What quantity of oil is left in the tanker?

Quality of oil distributed at one station =

89 L 1250 mL

Quality of oil distributed at another =

– 65 L 850 mL

Total Quality of oil distributed at one station =

23 L 400 mL

∴ 232 400 mL of oil is left in the tanker.

Exercise 12.4

1. Multiply the following:

(a)

205 m
× 9
1935 m

(b)

185 L 360 mL
× 3
555 L 600 mL

(c)

70 L 150 m
× 3
210 L 450 m

(d)

10 L 540 mL
× 4
42 L 160 mL

(e)

5 kg 342 g
× 6 g
32 kg 052 g

2. Divide the following :

(a) $64\text{ m } 32\text{ cm} \div 2$
 $= 64 \times 100 + 32$
 $= 6432\text{ cm} \div 2$
 $= 3216\text{ cm}$
 $= 3\text{ m } 216\text{ cm}$

$$\begin{array}{r} 3216 \\ 2 \overline{) 6432} \\ \underline{-6} \\ 4 \\ \underline{-4} \\ 3 \\ \underline{-2} \\ 12 \end{array}$$

(b) $16\text{ L } 120\text{ mL} \div 4$
 $= 16 \times 100 + 120$
 $= 1600 + 120$
 $= 1720\text{ mL} \div 4$
 $= 430\text{ mL}$

$$\begin{array}{r} 430 \\ 4 \overline{) 1720} \\ \underline{-16} \\ 12 \\ \underline{-12} \\ 0 \\ \underline{-0} \end{array}$$

(c) $1\text{ kg } 578\text{ g} \div 2$
 $= 16 \times 100 + 120$
 $= 1600 + 120$
 $= 1720\text{ mL} \div 4$
 $= 430\text{ mL}$

$$\begin{array}{r} 789 \\ 2 \overline{) 1578} \\ \underline{-14} \\ 17 \\ \underline{-16} \\ 18 \\ \underline{-18} \end{array}$$

(d) $540\text{ g} \div 9$
 $= 60\text{ g}$

$$\begin{array}{r} 60 \\ 9 \overline{) 540} \\ \underline{-54} \\ 0 \\ \underline{-0} \end{array}$$

(e) $404\text{ km } 76\text{ m} \div 4$
 $= 404076\text{ m} \div 4$
 $= 101019\text{ m}$
 $= 101\text{ km } 19\text{ m}$

$$\begin{array}{r} 101019 \\ 4 \overline{) 404076} \\ \underline{-4} \\ 04 \\ \underline{-4} \\ 007 \\ \underline{-4} \\ 36 \end{array}$$

3. Rubina carried 5 books weighing 1570 g. How much does 1 book weigh?

Weight of 5 books = 1570 g
 Weight of book = $1570\text{ g} \div 5$
 $= 314\text{ g}$

Weight of 1 books is 314 g.

$$\begin{array}{r} 314 \\ 5 \overline{) 1570} \\ \underline{-15} \\ 07 \\ \underline{-5} \\ 20 \end{array}$$

4. Aaushi poured 7 mugs of water in a container. Each holds 1L 200mL of water, How much water did Aarushi pour?

Capacity of 1 mug = 1200 mL
 Capacity of 7 mugs = $1\text{L } 200\text{ mL} \times 7$
 $= (1 \times 1000 + 200) \times 7$
 $= 1200\text{ mL} \times 7$
 $= 8400\text{ mL}$
 $= 8\text{L } 400\text{ mL}$

1	2	0	0
× 7			
8	4	0	0

∴ Aarushi poured 8 L 400 mL of water

5. The weight of 3 bags is 36 kg 300g. What is the weight of 1 bag?

$$\begin{aligned}
 \text{Weight of 3 bags} &= 36 \text{ kg } 300\text{g} \\
 \text{Weight of 1 bags} &= 36 \text{ kg } 300\text{g} \div 3 \\
 &= (36 \times 1000 + 300) \div 3 \\
 &= 36300 \div 3 \\
 &= 12100\text{g} \\
 &= 12 \text{ kg } 100\text{g}.
 \end{aligned}$$

\therefore Weight of 1 bag is 12 kg 100g

$$\begin{array}{r}
 12100 \\
 3 \overline{) 36300} \\
 \underline{-3} \\
 06 \\
 \underline{-6} \\
 03 \\
 \underline{-3} \\
 000
 \end{array}$$

Exercise 12.5

1. Convert.

- | | | |
|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| (a) 4 days into hours
= 4×24
= 96 hours | (b) 15 hours into minutes
= 15×60
= 900 minutes | (c) 20 hours 15 minutes into minutes
= $(20 \times 24) + 15$
= 495 minutes |
| (d) 45 minutes into seconds
= 45×60
= 2700 seconds | (e) 30 minutes 15 seconds into seconds
= $(30 \times 60) + 15$
= $1800 + 15$
= 1815 seconds | (f) 25 hours into seconds
= $25 \times 60 \times 60$
= 90000 seconds |

2. Arrange in columns and solve.

- (a) 3 hours 30 minutes + 18 hours 45 minutes

hrs	mins
3	30
+ 18	45
31	75

Since into = 60 mins
 $75 \text{ m} = 60 + 15$

\therefore 32 hrs 15 mins

- (b) 12 hours 15 minutes – 3 hours 30 minutes

hrs	mins
12	15
– 3	30
8	45

8 hrs 45 mins

- (c) 9 hours 36 minutes – 3 hours 30 minutes

hrs	mins
9	36
– 3	30
6	06

\therefore 6 hrs 6 mins

- (d) 45 hours 30 minutes + 3 hours 30 minutes

hrs	mins
45	30
+ 3	30
48	60

= 49 hrs

3. **Sohini took a flight to Delhi. The flight took off at 5 : 00 p.m. and landed at 7 :30 p.m. How much time did it take to reach Delhi?**

$$\begin{aligned} \text{Difference in time} &= 7 : 30 \text{ pm} - 5 : 00 \text{ pm} \\ &= 2 : 30 \\ &= 2 \text{ hours } 30 \text{ minutes} \end{aligned}$$

∴ Sohini took 2 hours 30 minutes to reach Delhi.

4. **An event started at 6 : 15 p.m. and ended at 9 : 30 p.m. What was the duration of the event?**

$$\begin{aligned} \text{Difference in time} &= 9 : 30 \text{ pm} - 6 : 15 \text{ pm} \\ &= 3 \text{ hours } 15 \text{ minutes} \end{aligned}$$

∴ Duration of event was 3 hours 15 minutes.

5. **Write the time shown on each clock.**

(a)



2 : 05

(b)



4 : 45

SELF ASSESSMENT-12

1. **Convert the following.**

(a) 2187 mL into litres and mL

$$\begin{aligned} &= 2187 \div 1000 \\ &= 2 \text{ L } 187 \text{ mL} \end{aligned}$$

(b) 9 km 187 m into m

$$\begin{aligned} &= 9 \times 1000 + 187 \\ &= 9000 + 187 \\ &= 9187 \text{ m} \end{aligned}$$

(c) 213 cm into m and cm

$$\begin{aligned} &= 213 \div 100 \\ &= 2 \text{ m } 13 \text{ cm} \end{aligned}$$

(d) 42 kg 360 into g

$$\begin{aligned} &= 42 \times 1000 + 360 \\ &= 42000 + 360 \\ &= 42360 \text{ g} \end{aligned}$$

(e) 9 days into hours

$$\begin{aligned} &= 9 \times 24 \\ &= 216 \text{ hours} \end{aligned}$$

2. **Arrange in columns and add.**

(a)

	m	cm
	6	18
+	4	90
	11	08

(b)

	kg	g
	7	328
+	8	682
	16	010

(c)

	L	mL
	67	675
+		350
	68	025

(d)

	hrs	mins
	7	20
+	13	40
	20	60

3. Arrange in columns and subtract.

(a)

L	mL
⁽²⁹⁾ 30	1180
+ 16	190
13	990

(b)

kg	g
54	150
- 35	325
18	825

(c)

L	mL
37	99
- 17	37
20	62

(d)

hrs	mins
24	60
- 13	20
10	40

4. Ronny had a ribbon of length 12 m 18 cm. She used 8 m 40cm of the ribbon. What is the length of ribbon left?

Length of ribbon	=	<table border="1"><thead><tr><th>m</th><th>cm</th></tr></thead><tbody><tr><td>⁽¹⁾ 12</td><td>118</td></tr></tbody></table>	m	cm	⁽¹⁾ 12	118
m	cm					
⁽¹⁾ 12	118					
Length of ribbon used	=	<table border="1"><tbody><tr><td>- 8</td><td>40</td></tr></tbody></table>	- 8	40		
- 8	40					
Length of ribbon left	=	<table border="1"><tbody><tr><td>3</td><td>78</td></tr></tbody></table>	3	78		
3	78					

∴ 3m 78 cm of length is left.

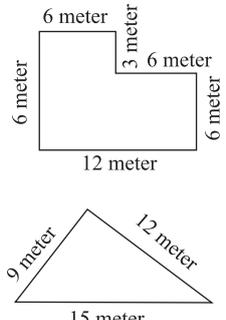
5. Aarushi distributed 8 kg 700 gm of sweets in one orphanage and 12 kg in another orphanage. How many quantity of sweets did he distribute in total?

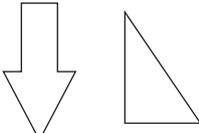
Sweets distributed in one orphanage	=	<table border="1"><thead><tr><th>kg</th><th>g</th></tr></thead><tbody><tr><td>8</td><td>700</td></tr></tbody></table>	kg	g	8	700
kg	g					
8	700					
Sweets distributed in another orphanage	=	<table border="1"><tbody><tr><td>- 12</td><td>000</td></tr></tbody></table>	- 12	000		
- 12	000					
∴ Aarushi distributed		<table border="1"><tbody><tr><td>20</td><td>700</td></tr></tbody></table> of sweets.	20	700		
20	700					

6. Select the appropriate measurement.



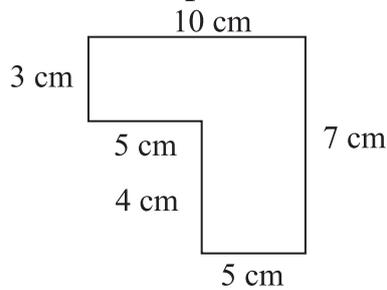
Chapter-13 Area and perimeter

Topics	Learning Outcomes	Teaching Learning Activity	Questions on Hots
Concept of fences (boundary or perimeter) It is expressed in units cm/m depending upon the unit of the dimensions of the given figure.	The students will be able to calculate the boundary that is the sum of the sides of given figure	The students will find the boundary of their maths book, cupboard etc.	Find out which field has the longest boundary:- 

<p>Concept of AREA Area-The space covered by the surface of the figure. Also the area of a figure is the number of square units that cover the surface of the closed figure.</p>	<p>The students will be able to calculate the area of a figure by counting the squares of area 1 sq units</p>	<p>Draw different shapes on a 1 cm/1 unit square grid or a graph paper and calculate their area by counting squares</p>	<p>Q. Find the area by counting squares:</p> 
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------

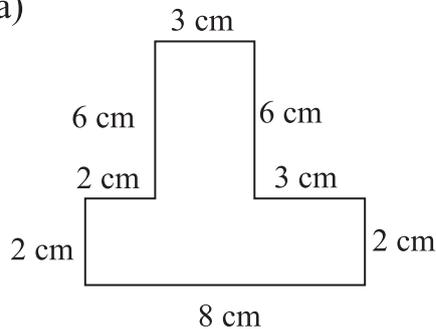
Exercise 13.1

1. Calculate the perimeter of the figure.



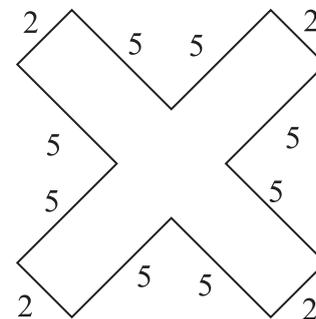
2. Find the perimeter of the following figures.

(a)



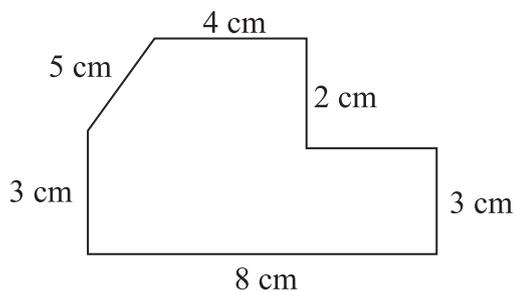
$$\begin{aligned} \text{Perimeter} &= 3 + 6 + 3 + 2 + 8 \\ &+ 2 + 2 + 6 = 32 \text{ cm} \end{aligned}$$

(b)



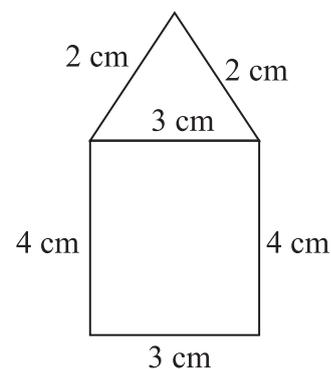
$$\begin{aligned} \text{Perimeter} &= 2 + 5 + 5 + 2 + 5 + 5 + 2 \\ &+ 5 + 5 + 2 + 5 + 5 = 48 \text{ cm} \end{aligned}$$

(c)



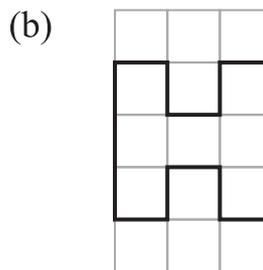
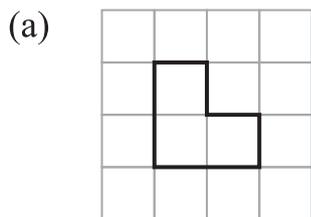
$$\begin{aligned} \text{Perimeter} &= 5 + 4 + 2 + 3 + 8 \\ &+ 3 = 25 \text{ cm} \end{aligned}$$

(d)



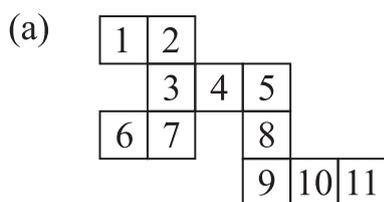
$$\begin{aligned} \text{Perimeter} &= 2 + 2 + 4 + 3 \\ &+ 4 = 15 \text{ cm} \end{aligned}$$

3. Find the perimeter of the shapes drawn on the grids. Each square on the grid has side of 1 unit.

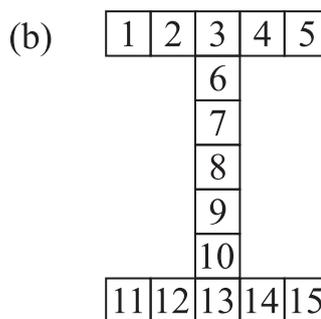


Exercise 13.2

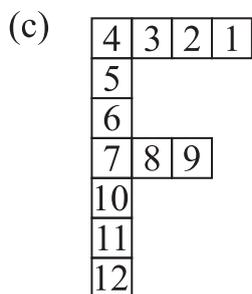
1. Find the area of the figures given below by counting square. (Taking area of each square as 1 sq. unit.)



Area = **11** sq. units.

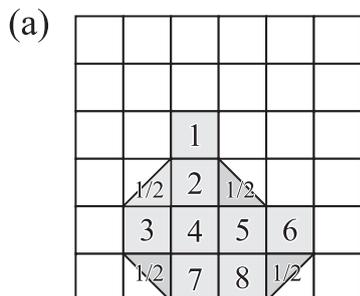


Area = **15** sq. units.

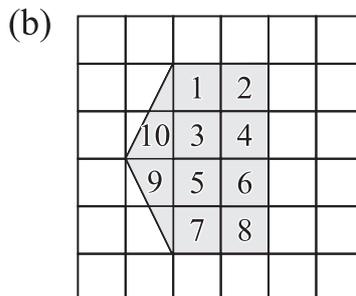


Area = **12** sq. units.

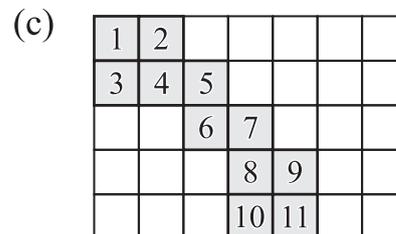
2. Calculate the area of the shaded part.



Area = **10** sq. units.

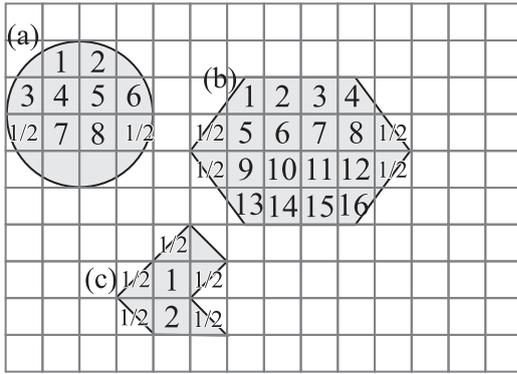


Area = **10** sq. units.



Area = **11** sq. units.

3. Estimate the area for the shaded region in the given figure.

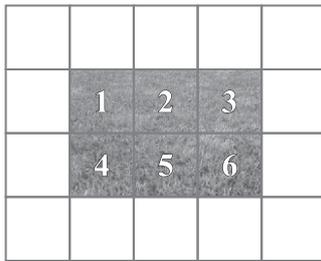


(a) Area = 14 sq. units.

(b) Area = 18 sq. units.

(c) Area = 5 sq. units.

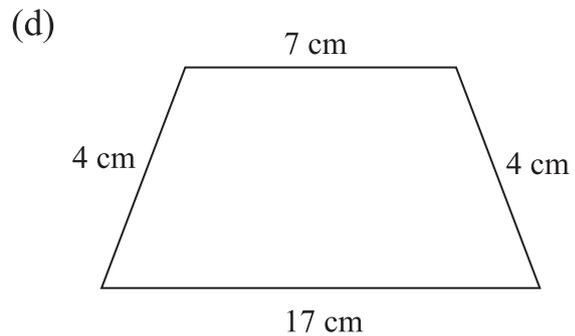
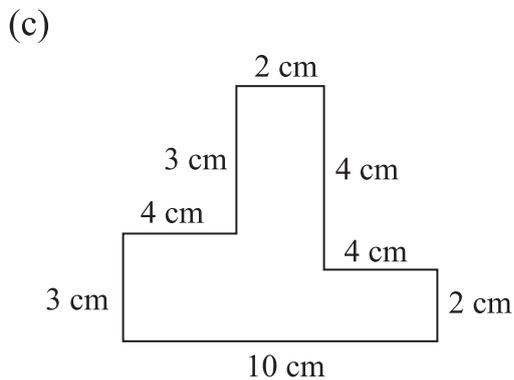
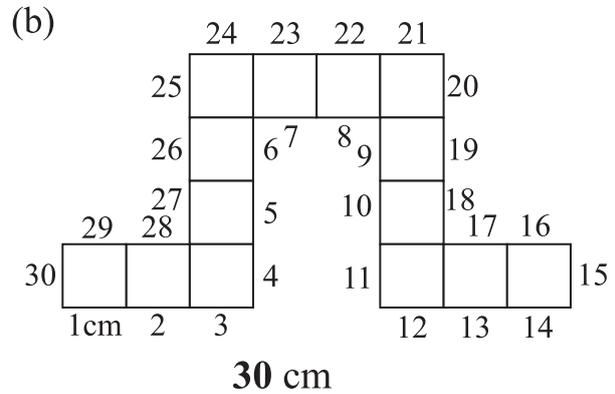
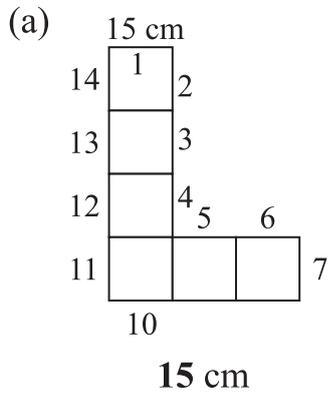
4. The pathway around a rectangular garden shown in the figure is made up of square bricks of 1 unit side. Calculate the area of the pathway.



The area of the pathway is 6 sq. units.

SELF ASSESSMENT-13

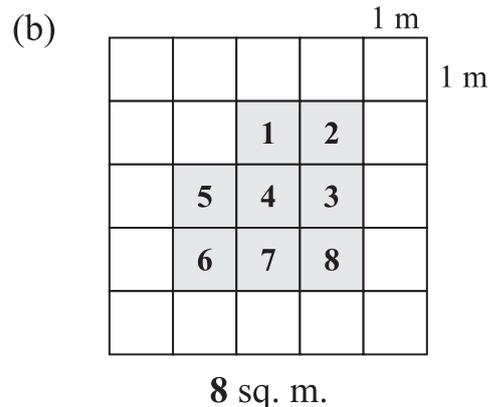
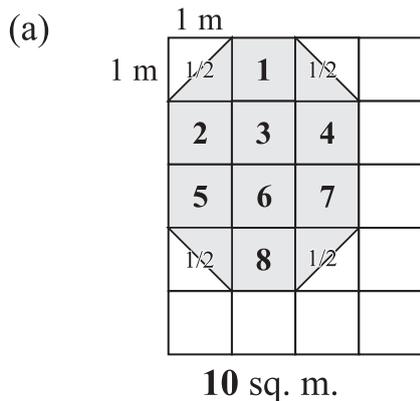
1. Find the perimeter for the following figures.



Perimeter = 2 + 4 + 4 + 2 + 10
+ 3 + 4 + 3 = 32 cm

Perimeter = 7 + 4 + 17 + 4 = 32 cm.

2. Find the area of the shaded figure.



Chapter-14 Data handling

Topics	Learning Outcomes	Teaching Learning Activity	Questions on Hots
Collection of data and Data representation in different ways- Represent data graphically (bar graph, pie-charts) and through pictographs.	Data collection based on daily activities like different modes of transport used by children to reach school, games liked by them etc.(tally marks)	The children will collect data and make the table for representing collected data and then represent it in the form of tally marks bar graph and pictograph.	Collect the data of different brands of chocolate liked by the students, and prepare a pictograph.
Data Analysis	Represent data graphically (pictograph and bar graph) Students will be able to analyse and answer questions on the data represented.	Teacher may give a bar graph and ask questions based on it.	

LOOK BACK

1. The stars received by the 4 houses of class 4 A in a month is shown below.

Houses	Number of stars
Red	★ ★ ★ ★ ★ ★
Blue	★ ★ ★ ★
Green	★ ★ ★ ★
Yellow	★ ★ ★ ★ ★ ★ ★ ★

Observe the pictograph and answer the following questions.

- How many stars have been collected by green house?
- Which house has collected the maximum number of stars?
- Which two houses have earned the same number of stars?

4
Yellow
Blue and Green

2. The following data shows the grades of the students and number of students who got that grade. Observe the table and answer the questions.

Grade	Tally Marks
A	
B	
C	
E	

- (a) How many students got grade A? **15**
 (b) Which grade was earned by maximum number of students? **7**
 (c) How many students got grade E? **2**

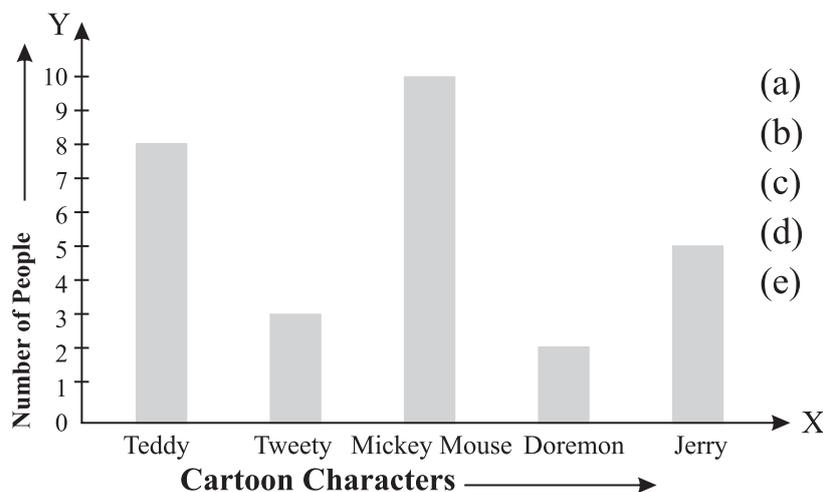
Exercise 14

1. A sweet shop recorded the number of customers that came to the shop to buy sweets. Study the pictograph and answer the following questions.

Day	Number of customers
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	

- (a) $4 \times 10 = 40$ customers visited the shop on friday.
 (b) $6 \times 10 = 60$ customers were there on wednesday.
 (c) Yes, on wednesday thursday 60 customers visited the she
 (d) $50 + 30 + 60 + 60 + 40$
 $= 240$ customers visited the shop in that week.

2. A cartoon channel did a survey to find out the choices of cartoon characters. Study the bar graph and answer the following question?

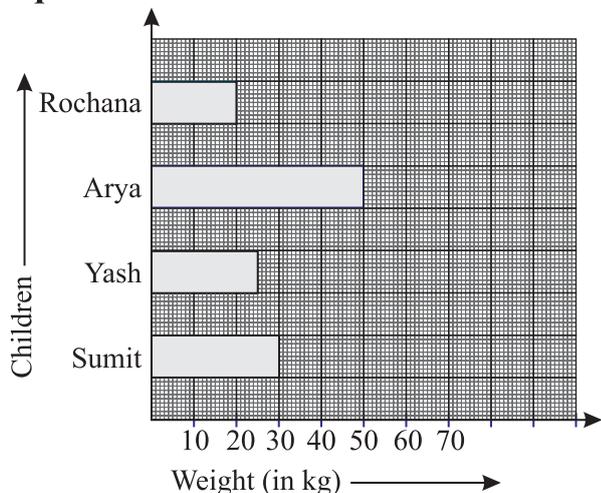


- (a) 5 people liked jerry.
 (b) people like jerry more.
 (c) Twenty = 3, Doremon = 2 Total = 5
 (d) Mickey mouse
 (e) 3 people liked twenty

3. The following tally chart shows how many magazine was sold from Monday to Friday, complete the data to answer the questions.

Days	Tally Marks	Number of magazines
Monday		15
Tuesday		30
Wednesday		18
Thursday		19
Friday		27

- (a) 18 magazines were sold on wednesday.
- (b) Monday = 15, Friday = 27. Total magazines = $15 + 27 = 42$ magazines
- (c) Tuesday = 30, Thursday = 19
 $30 + 9$
 = 11 more magazines were sold on Tuesday than Thursday.
- (d) On Friday
- (e) Total magazines sold = $15 + 30 + 18 + 19 + 27 = 109$
4. A group of children measured and recorded their weights. The data collected was recorded as a bar graph given below. Study the graph and answer the following questions.



- (a) Rochana has the lowest weight.
- (b) Arya's weight is 50 kg.
- (c) Yash's weight is 25.
 (Since it is between 20 and 30)

SELF ASSESSMENT-14

1. The tally chart show the number of pages read by Sushmita in a week. Read the chart and answer the questions that follow.

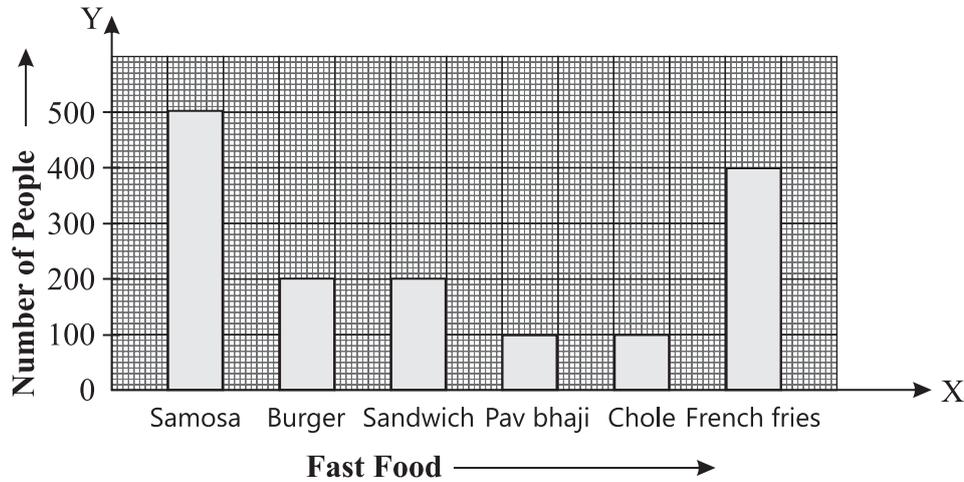
Days of Week	Tally Marks
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	

- (a) Sushmita read 3 pages on Friday.
- (b) Total paper read = $5 + 8 + 2 + 5 + 3 = 23$ pages.
- (c) On Tuesday she read the maximum paper
- (d) Wednesday = 2, Tuesday 8.

She read $8 - 2 = 6$ paper less on wednesday than Tuesday.

2. Sarah surveyed a group of children to find their favourite fast food. The bar graph shows the results of her survey.

Study the bar graph and answer these questions.



- (a) Samosa is the most popular fast food.
- (b) Pav bhaji and chole are least popular.
- (c) 400 people like french fries.
- (d) Samosa = 500 Burger = 200.
So, $500 \times 200 = 300$ more children like Samosa.
- (e) 100 children like pav bhaji.

WORKSHEET

Worksheet-1

- 1. 37
- 2. 6
- 3. 1, 7
- 4. $\frac{2+6+47}{17} = \frac{12}{17}$
- 5. 15
- 6. $275 - 118 = 157$
- 7. $5 \times 4 = 20$ cm
- 8. ₹ 610
- 9. 1200
- 10. 1

Worksheet-2

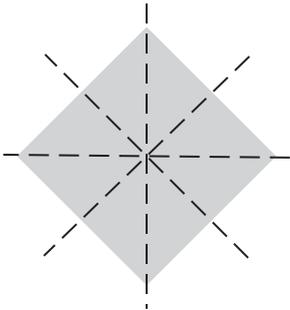
- 1. $15 + 15 + 15 = 45$ cm
- 2. $4 \times 24 = 96$ hours
- 3. 9
- 4. 32000
- 5. $805 - 525 = 280$
- 6. 90
- 7. $60 \times 2 = 120$
- 8. 700
- 9. 9
- 10. 64, 128

Worksheet-3

- 1. 270
- 2. diameter
- 3. 120
- 4. 10:00 cm
- 5. 13
- 6. $\frac{2}{5}$
- 7. $\frac{1}{4} + \frac{2}{4} = \frac{3}{4}$
- 8. 202
- 9. 591
- 10. 32000 [32×1000 , since 1 kg = 1000g]

Worksheet-4

1. 61 2. 2761 3. 804 4. $14+10=24$ 5. 180 6. 500

7.  8. XLIV 9. 24000 10. 11:30 pm

Worksheet-5

1. 4 2. 11:15 3. 70851 4. $23(17+29)\div 2$ 5. 4 6. 296

7. $\frac{9}{10}$ 8. (14), (100), (182), 135 9. 2000 highest place is 1000) 10. 24

Worksheet-6

1. $\frac{3}{6}$ 2. 70, 82, (19), 36, (99), 44 3. $50\times 4=200$ legs 4. $(\frac{1}{31}), \frac{2}{15}, \frac{7}{3}, (\frac{1}{18}), \frac{7}{2}$

5. Qc57; R=8 6. 42, 48 7. 19:20 hours 8. $\frac{1}{3}\times 21=7$ 9. $\frac{6}{42}$

10. 69000

Worksheet-7

1. 61, 63, 65, 67 2. 438000 3. $6+6+10=22$ cm 4. 260 mL

5. 0, (8), 2, 43, (21) 6. 6542 7. 364 8. 2:20 pm 9. 6

10. 70 times ($14\times 5=70$)

Worksheet-8

1. 9,40,000 2. $\frac{1}{5}\times \frac{5}{5}=\frac{5}{25}$ 3. 110 4. 26 5. 98990 6. 10000

7. Yes 8. 1:35 pm 9. 800 10. $32(16\times 2=32)$

Worksheet-9

1. 28 cm ($7\times 4=28$ cm) 2. 4 3. 6 feet 4. 972 5.

6. vertical 7. 8 threes = 24, 3 fives = 15, $24-15=9$ 8. 36 9. 5 10. 82

Worksheet-10

1. 875 2. ₹25 3. 62499 4. $8520+125=8645$ 5. $140=14\times 10$

6. 18, (37), 14, 36 7. 58 8. 3:50 9. 4th August 10. Yes