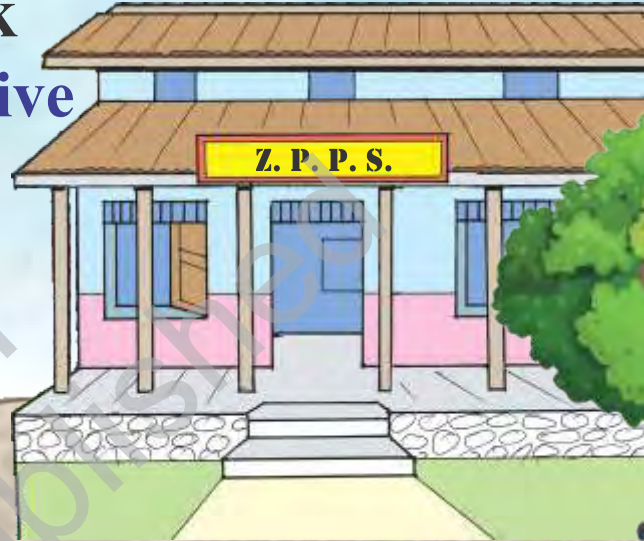




Let's do friendship with Mathematics

Workbook
Standard : Five



a-3



$$\frac{x}{2}$$

Samagra Shiksha



90°



State Council of Educational Research and Training, Maharashtra, Pune.

Let's do friendship with Mathematics : Standard Five

- **Promoter** : School Education and Sports Department, Government of Maharashtra.
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- **Inspiration** : **Hon'ble Vandana Krishna** (I.A.S.)
Additional Chief Secretary,
School Education and Sports Department, Ministry, Mumbai.
- **Guidance** : **Hon'ble Vishal Solanki** (I.A.S.)
Commissioner (Education), Maharashtra State, Pune.
Hon'ble Rahul Dwivedi (I.A.S.)
State Project Director, Maharashtra Prathamik Shikshan Parishad, Mumbai.
- **Editor** : **Shri. M. D. Singh** (I.A.S.)
Director,
State Council of Educational Research and Training, Maharashtra, Pune.
- **Co-Editor** : **Shri. Ramakant Kathmore**
Joint Director,
State Council of Educational Research and Training, Maharashtra, Pune.
- **Executive Editor** : **Shri. Vikas Garad**
Principal, (Co-ordination Dept.),
State Council of Educational Research and Training, Maharashtra, Pune.
Ratnaprabha Bhalerao
Senior Lecturer, Maths Department,
State Council of Educational Research and Training, Maharashtra, Pune.
Vrushali Gaikwad
Lecturer, Maths Department,
State Council of Educational Research and Training, Maharashtra, Pune.
- **Editorial Support** : **Vaishali Gadhve**
Subject Assistant, Maths Department,
State Council of Educational Research and Training, Maharashtra, Pune.
Bhakti Joshi
Subject Assistant, Maths Department,
State Council of Educational Research and Training, Maharashtra, Pune.
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Let's do friendship with Mathematics

Workbook

Std. : Five



**NIPUN
BHARAT**

Samagra Shiksha

Name : _____

School : _____

Standard : _____ Division : _____



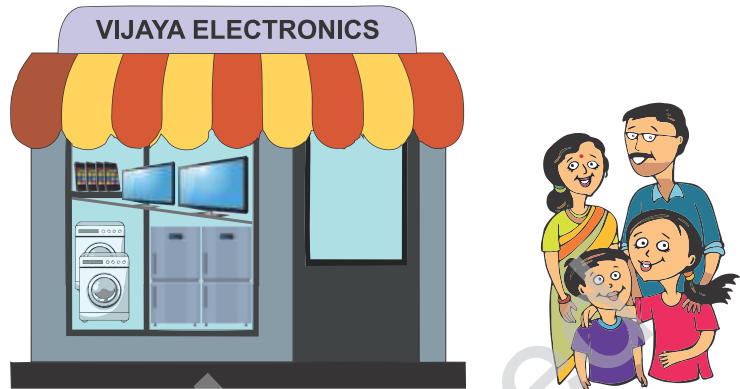
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2. Friendship with Numbers

- Meena's family has decided to go for shopping. They want to buy the following items. Write down the approximate prices of those items in figures and words.

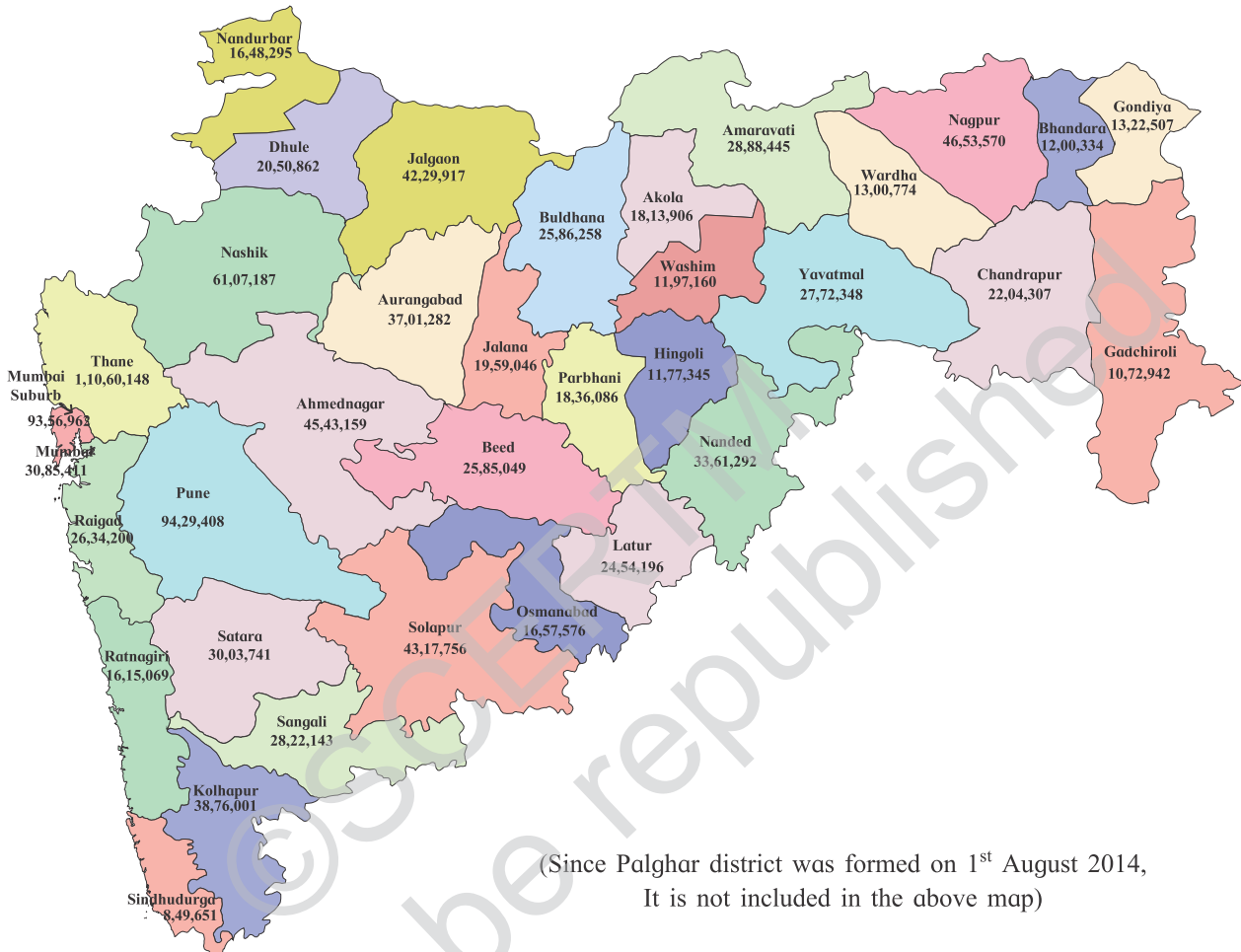


Name of the item	Approximate Price ₹	Price in words
Mobile	12,000	₹ Twelve thousand
Refrigerator		
Television		
Washing Machine		

- Write down the different combination of the same number. Write the given number in different forms as shown.

<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">526</div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; width: 30px; text-align: center;">500</div> <div style="border: 1px solid black; padding: 5px; width: 30px; text-align: center;">20</div> <div style="border: 1px solid black; padding: 5px; width: 30px; text-align: center;">6</div> </div>	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">526</div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; width: 30px; text-align: center;">400</div> <div style="border: 1px solid black; padding: 5px; width: 30px; text-align: center;">120</div> <div style="border: 1px solid black; padding: 5px; width: 30px; text-align: center;">6</div> </div>	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">526</div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; width: 30px; height: 20px;"></div> <div style="border: 1px solid black; width: 30px; height: 20px;"></div> <div style="border: 1px solid black; width: 30px; height: 20px;"></div> </div>
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">804</div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; width: 30px; text-align: center;">700</div> <div style="border: 1px solid black; padding: 5px; width: 30px; text-align: center;">100</div> <div style="border: 1px solid black; padding: 5px; width: 30px; text-align: center;">4</div> </div>	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">804</div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; width: 30px; height: 20px;"></div> <div style="border: 1px solid black; width: 30px; height: 20px;"></div> <div style="border: 1px solid black; width: 30px; height: 20px;"></div> </div>	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">804</div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; width: 30px; height: 20px;"></div> <div style="border: 1px solid black; width: 30px; height: 20px;"></div> <div style="border: 1px solid black; width: 30px; height: 20px;"></div> </div>
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- Look at the map showing districtwise population of Maharashtra as per the census 2011. Write the population of any five districts in figures and words



Sr. No.	Name of District	Population (in figures)	Population (in words)
1.			
2.			
3.			
4.			
5.			

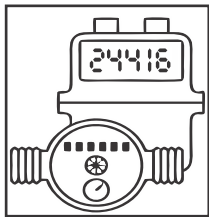
- Write the numbers in words.



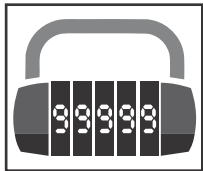
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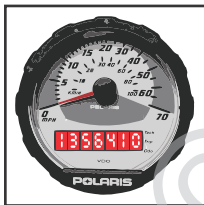
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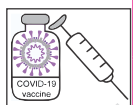


.....



.....

- Refer the table given below and answer the questions which gives the data of first dose of Covid-19 vaccination drive at different centres.



Centre Number	1	2	3	4	5	6
Number of vaccinated people	74,369	97,372	65,707	82,918	73,314	53,423

- Write in words the maximum number of people who got vaccinated in a centre.

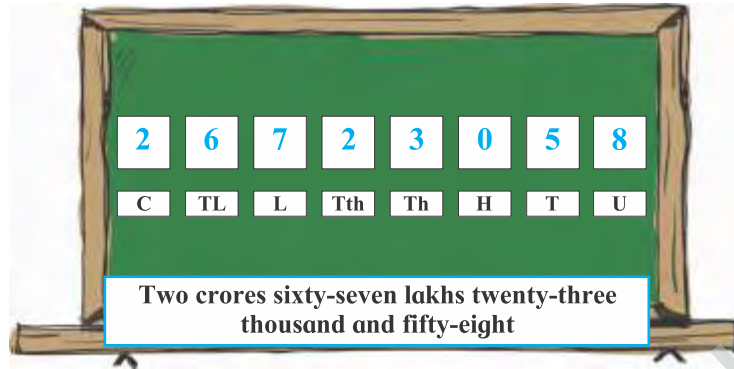
.....

- Write in words the minimum number of people who got vaccinated in a centre.

.....

- Complete the given table :

Example :

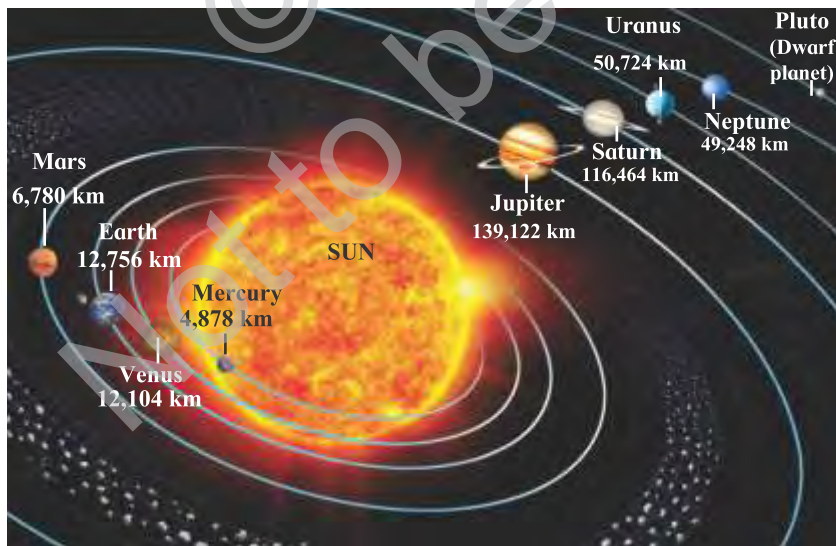


Number								
Place								
Number in words								
Number								
Place								
Number in words								

Ascending – Descending Order

- Write down the names of the planets in Ascending order with respect to the diameter.

Diametre of planets (in kilometre)



.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

Smaller number, Greater number

7,67,916 > 3,62,412 3,24,314 < 7,70,325

○ Write appropriate sign < or > in the box.

- 1) 14,12,740 16,19,402 2) 71,04,405 26,58,166 3) 95,916 98,653
- 4) 45,20,176 45,89,402 5) 4,44,231 17,02,16 6) 7,88,354 7,89,354

○ Complete the following :

- 1) A pharmaceutical company in Mumbai manufactured 6,45,395 doses whereas a company in Pune manufactured 7,65,075 doses of vaccine. Which company manufactured more doses?



.....

- 2) 'Krishisadhana' womens saving scheme has a collection of ₹ 7,36,216. 'Hirkani' womens saving scheme has a collection of ₹ 9,16,887. 'Yashoda' womens saving scheme has a collection of ₹ 14,96,063.

Write down their investments in Ascending order.

.....

- 3) A Gram Panchayat spends ₹ 2,32,372 for supply of water, ₹ 3,16,917 for health care, ₹ 2,45,123 for road development. On what does Gram Panchayat spend the least?



.....

.....

○ Complete the given table :

Notes of ₹ 2000	Notes of ₹ 100	Notes of ₹ 10	Amount collected in ₹	Total collection in figures	Total collection ₹ (in words)
12	14	5	24000 + 1400 + 50	25,450	Twenty five thousand four hundred and fifty
24	23	0			
17	15	2			
28	2	6			

- 2) Aakash wants to deposit 19 notes of ₹ 2000, 25 notes of ₹ 200, 22 notes of ₹ 100, 40 notes of ₹ 10 in the bank.
Help him to fill the bank slip.

Nationalised Bank	Nationalised Bank
Date :	Date :
Name : Aakash Rohan Sanap	Name : Aakash Rohan Sanap
Savings Account No. : 3 5 1 3 0 8 1 5 6 7 2	Savings Account No. : 3 5 1 3 0 8 1 5 6 7 2
in figures Rs. :	in figures Rs. :
in words Rs. :	in words Rs. :
..... only only
Pan No. : B A M P 0 6 4 2 J	Pan No. : B A M P 0 6 4 2 J
Details of Cheque	
Bank : Nationalised Bank :	Rs.
Cheque No. :	
Cash :	
Details of Cheque	Rs.
Bank : Nationalised Bank :	
Cheque No. :	
Cash :	
Details of Notes	Rs.
2000 ×	
500 ×	
200 ×	
100 ×	
50 ×	
20 ×	
10 ×	
5 ×	
Coins	
Total	
Cashier	Passing Officer
Signature of the Depositor	Signature of the Depositor
Clerk	Cashier
Passing Officer	Passing Officer
Signature of the Depositor	Signature of the Depositor

3. Let's Add and Subtract



Addition

○ Solve.

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

	L	Tth	Th	H	T	U
	1	4	2	9	5	0
+			0	9	9	0
+	7	9	0	9	0	7

	L	Tth	Th	H	T	U
	6	7	4	1	5	0
+			4	5	7	4
+		4	3	7	0	7

	L	Tth	Th	H	T	U
		9	3	7	5	1
+		6	4	3	5	2
+			1	9	9	7

○ Arrange vertically and solve.

1) $1,40,124 + 258 + 4,589$ 2) $17,405 + 2,478 + 48,045$

$3) 79 + 458 + 10,215$

$4) 47,789 + 1,020 + 356$

$5) 33,126 + 450 + 40,400$

$6) 9,999 + 9,090 + 90,009$

○ Solve the following.

$1) 9,54,728 + 100 = \boxed{}$

$2) 1,51,515 + 0 = \boxed{}$

$3) 8,67,342 + 1,000 = \boxed{}$

$4) 4,65,000 + \boxed{} = 4,75,000$

$5) 300 + 800 = \boxed{}$

$6) 8,500 + 4,500 = \boxed{}$

$7) 2,070 + 1,030 = \boxed{}$

$8) 8,750 + 5,750 = \boxed{}$

$9) 54,321 + 12,345 = \boxed{}$

$10) 7,777 + \boxed{} = 8,888$

$11) 1,67,579 + 3,54,564 = 3,54,564 + \boxed{}$

Addition : Word Problem

Example : Rajveer had an amount of ₹ 3,48,980 in his bank account. Later he had deposited an amount of ₹ 1,48,967. What is the total amount in his bank account ?

Rajveer had an amount = 3,48,980

Later amount deposited = 1,48,967

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

Total amount $3,48,980 + 1,48,967 =$ in his bank account.

○ Solve.

- 1) What is the sum of largest five digit number and smallest six digit number?
- 2) Lata spent ₹ 5,38,937 on digging wells, and ₹ 2,95,870 for drip irrigaton. How much money did Lata spend in all?
- 3) A sugar factory produced 8,24,750 sacks of sugar in the last year and this year 12,35,847 sacks of sugar. Find the total production in two years.
- 4) Latur citizens helped a school by giving an amount of ₹ 5,24,490 for E-learning facility, ₹ 65,459 for school decoration and ₹ 38,740 for tree plantation. How much money was donated in all?





Subtraction

Example : $8,73,803 - 96,591 = ?$

L	Tth	Th	H	T	U
	16				
7	7	13	7	10	
8	7	3	8	0	3
-	9	6	5	9	1
7	7	7	2	1	2

Example : $8,56,721 - 3,28,830 = ?$

L	Tth	Th	H	T	U
8	5	6	7	2	1
-	3	2	8	8	3
					0

○ Solve.

1) $91,47,508 - 58,65,917$

2) $8,56,760 - 5,23,843$

3) $47,91,508 - 8,88,988$

4) $31,82,912 - 2,28,038$

○ **Solve.**

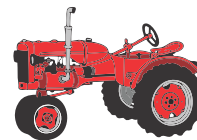
- 1) What is the difference between largest seven digit number and the smallest five digit number?
- 2) The population of a village is 96,386, out of which 30,237 are men and 28,170 are women and remaining are children. How many of them are children?
- 3) A social organization had decided to collect a fund of ₹ 20,00,000. But the collection from the donations was ₹ 31,12,540. How much more money had been collected?
- 4) In a city 3,50,254 people had mobile phones, out of which 1,64,258 people had smart phones and remaining had simple calling phones. How many of them do not have smart phones?
- 5) A company manufactured 56,850 cycles in the first year and 63,868 cycles in the second year. How many more cycles were manufactured in the second year?
- 6) Last year an irrigation plan was carried out in taluka where 6,76,847 sacks of fertilizers were sold and in this year 4,98,592 sacks of fertilizers were sold. How many less sacks of fertilizers were sold this year?



- 7) In the district under the tree conservation initiative 8,56,000 trees had to be planted. But they planted 11,43,801 trees. How many more trees were being planted?



- 8) Aayush had to buy a tractor for ₹ 7,28,405. He had an amount of ₹ 2,40,750. The remaining amount he had to take a loan. How much loan amount should he required?



FUn WiTH nUMBERs

- ❖ Take any four digits from 1 to 9 (No repetition of digits) for Example : 3,7,4,1
- ❖ From the above given digits we will build the biggest four digit number. i.e. : 7431
- ❖ From the above given digits we will build the smallest four digit number. i.e. : 1347
- ❖ Subtract the smallest four digit number from the biggest four digit number.

7431
– 1347
<hr style="width: 50px; margin: 0;"/>
6084
- ❖ Rewrite this difference in reverse order, that is 4806.
- ❖ Add the difference 6084 and its reverse order 4806.

6084
+ 4806
<hr style="width: 50px; margin: 0;"/>
10,890
- ❖ Now you take any other four digits from 1 to 9 and follow the same steps. You will get the same answer. Don't you believe? Try it out.

○ Solve and fill in with the correct numbers.

1)

TL	L	Tth	Th	H	T	U
1		9	8	7	5	
+		5		9	4	8
1	8		9		0	4

2)

TL	L	Tth	Th	H	T	U
7	8	3		7	2	1
+		3	5		8	
8	2		4	8	0	3

3)

TL	L	Tth	Th	H	T	U
	8		6	7		5
-	9	5	8	6	8	
3		3	8		5	2

4)

TL	L	Tth	Th	H	T	U
6		3	8	4	5	
-	4	8	5	7		8
	4		1	0	7	8

Mixed examples

○ Solve the following word problems.

1) Ravi, Saleem and Joseph together started a business wherein they invested a total amount of ₹ 35,98,205, for their business. If investment of Ravi is ₹ 9,40,835 and Saleem is ₹ 11,30,856. How much did Joseph invested?

2) The mask manufacturing company manufactured 9,48,756 masks on Monday and on Tuesday 7,63,552 masks. Out of which the company sold 8,18,193 masks. How many masks are still left?



3) The Gram Panchayat received House Tax of ₹ 3,28,756 and water tax of ₹ 33,654 Out of which some amount was spent for Education hence, then ₹ 1,95,885 was left How much money was spent on Education?

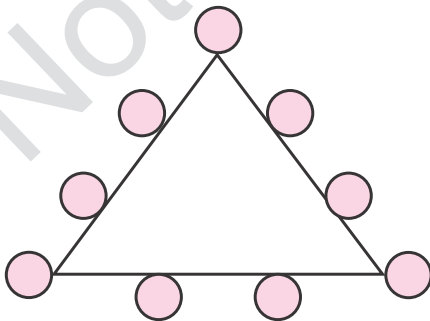
4) Rajesh purchased a flat for ₹ 78,85,318 and a shop for ₹ 30,91,526. He was granted a loan of ₹ 90,00,000. So how much money does he need to complete the deal?

□□□

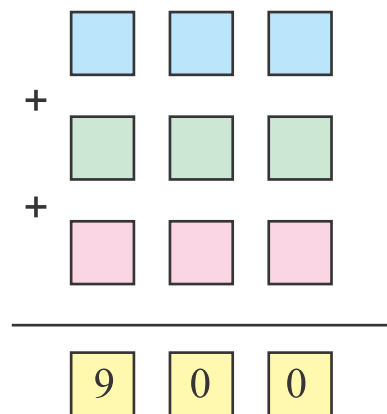
FUn WITH nUMBERs



○ Fill the circle given on the sides of the triangle with digits 1 to 9 in such a way that addition of the digits on each side of the triangle is 15 (repetition of digits is not allowed.)



○ In the given squares write the digits from 1 to 9 in such a way that we get the sum 900 (digits)



4. Let's Multiply and Divide



○ Multiply the following.

Example : 75×41



$$\begin{array}{r}
 75 \\
 \times 41 \\
 \hline
 75 \quad (75 \times 1) \\
 + 3000 \quad (75 \times 40) \\
 \hline
 3075
 \end{array}$$

Sister, how have you solved it?



75 and 41 is multiplied in two steps.
(i.e) 41 means $40 + 1$
So, first we multiply 75 by 1 and then 75 by 40.

1) 225×25

Tth	Th	h	T	U
×				
+				

2) 793×42

Tth	Th	h	T	U
×				
+				

3) 604×28

Tth	Th	h	T	U
×				
+				



4) 609×214

	L	Tth	Th	h	T	U
×						
+						
+						

5) 445×891

	L	Tth	Th	h	T	U
×						
+						
+						

○ Solve.

1) 654×21

2) 270×14

3) 109×279

○ Solve the multiplication sums and fill in the crossword with products with respect to their alphabets.

A) 122×141

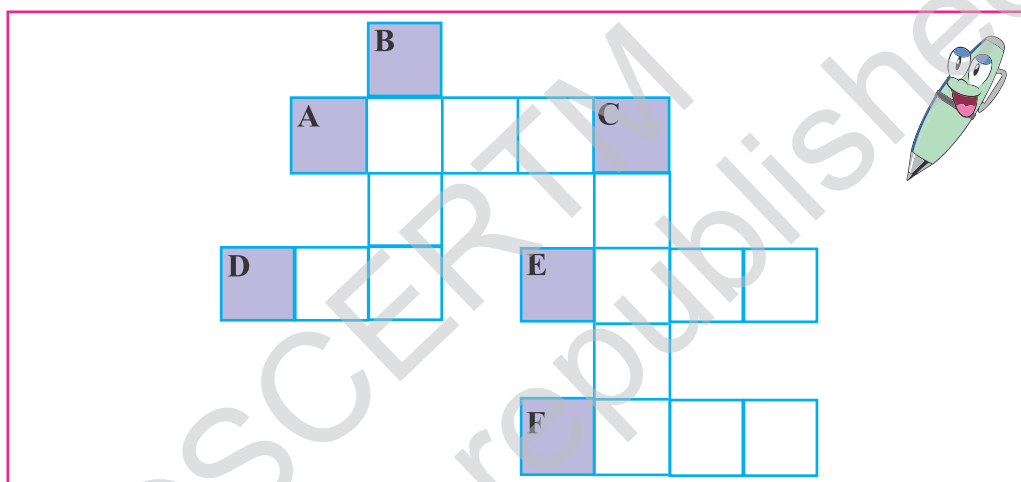
B) 270×14

C) 153×150

D) 225×2

E) 197×15

F) 56×36



Word Problems

Illustrative Example :

If cost of 1 xerox machine is ₹ 48,109 then how much will 13 xerox machines cost ?

Solution :

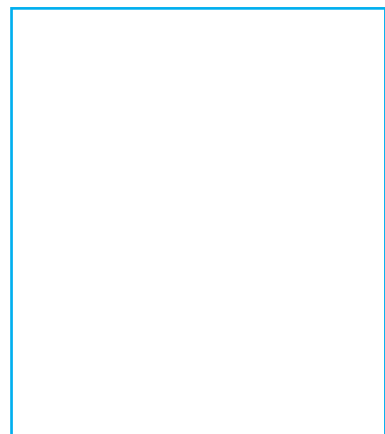
Given : Cost of 1 xerox machine =

To find : the cost of how many machines ?

Operation Multiplication

Cost of 13 machines = $48,109 \times 13$

Ans : So, 13 xerox machines cost = ₹





Practice Problems / Solve the following.

- 1) An aeroplane has a speed of 950 km per hour, then how much distance will be covered in 6 hours?

Solution :

Covering distance in 1 hour =

Operation :

Distance covered in 6 hours = x

So, distance covered in 6 hours is km



Empty box for solution to problem 1

- 2) How many minutes are there in 5 hours ?

Solution :

1 hour = mins.

Operation :

5 hours = x

So, mins. in 5 hours.



Empty box for solution to problem 2

- 3) How much is 23 times of largest five digit number ?

Solution :

Largest five digit number is

How many times it is to be multiplied ?

Operation :

23 x =

So, it is

Empty box for solution to problem 3

- 4) The cost of 1 metre cloth is ₹ 525, then what is the cost of 250 metre cloth ?

Solution :

Cost of 1 metre cloth is

Length of the cloth required is

Operation :

So, cost of 250 metre cloth is

.....



Empty box for solution to problem 4

Multiplication : Word Problems



○ Solve.

- 1) In a tree plantation, if there are 275 trees in a row, then how many trees will be there in 42 such rows ?



- 2) In a day, minute hand covers 24 rounds, then find out how many rounds minute hand will complete in a year ?

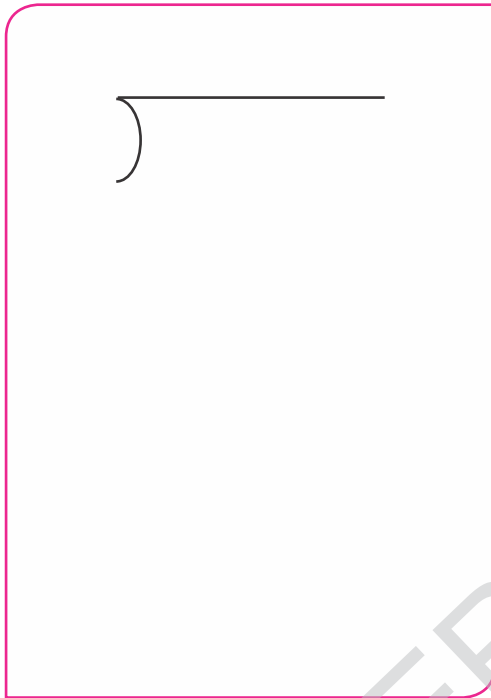


- 3) For a building construction, 790 sacks of cement is needed. One sack of cement costs ₹ 395, then what will be the total amount required to purchase those many sacks of cement ?

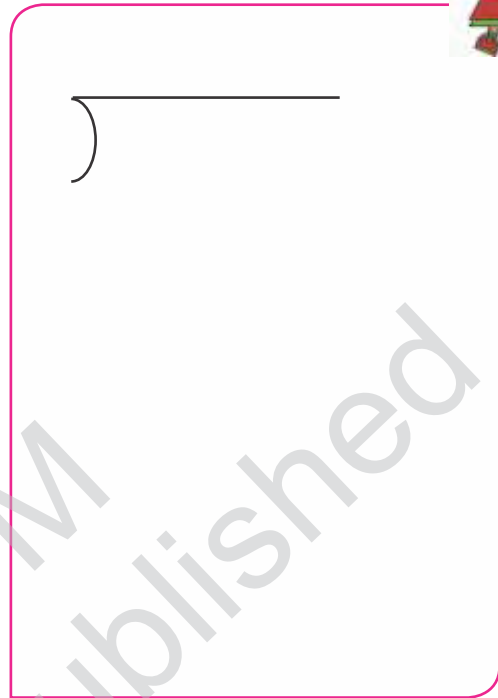
- 4) A travel company had planned for a trip to Rajasthan, with 126 people. Each one paid ₹ 45,789 then what was the total collection ?



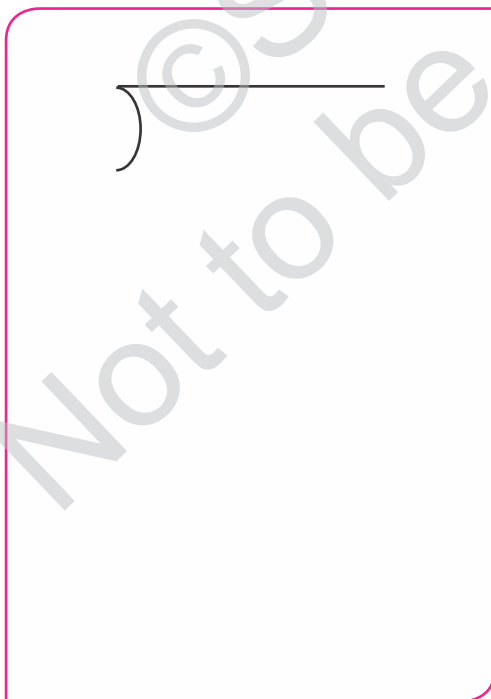
4) $78,925 \div 25$



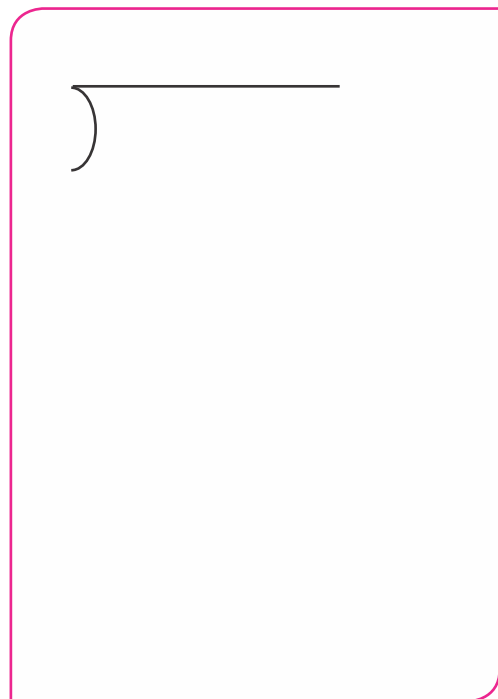
5) $4,586 \div 12$



6) $1,089 \div 17$



7) $1,24,578 \div 20$





Division - Word Problems

Illustrative Example :

A bus covers a distance of 40 km in an hour. So with the same speed in how much time will it cover the distance of 480 km?

Solution :



Bus covers a distance in one hour is =

Bus needs to cover a distance of =

Operation :

$$\begin{array}{r}
 0 \\
 \hline
 40 \overline{) 480} \\
 \underline{- 0} \\
 48 \\
 \underline{- 40} \\
 08 \\
 \underline{- 80} \\
 000
 \end{array}$$

∴ The time taken to cover the distance of 480 km is 12 hours

○ Solve.

- 1) Father gave a gift of ₹ 2,260 to his son Ramesh. He gave this amount in the notes of ₹ 20 denominations. Find out how many notes of ₹ 20 were given.

Solution :

.....

.....

.....

.....

- 2) The product of two numbers is 9130. If one of the number is 22 then find the other number ?

Solution :

.....

.....

.....

.....

3) Which number when multiplied by 12 will give the product 48,600?

Solution :

.....

.....

.....

.....

4) The capacity of a water tank is 2,000 litres. How many times 2 liter vessel is to be used to fill the tank completely with water?

Solution :

.....

.....

.....

.....

5) Ahmed has 7,040 apples. He has to keep them in cartons. If he places 20 apples in each carton, how many cartons are needed?

Solution :

.....

.....

.....

.....

Illustrative Example :

If 25 chairs costs ₹ 12,500, then what is the cost of 86 such chairs.

Solution :

25 chairs costs ₹ 12,500, then cost of one chair = $12,500 \div 25$

\therefore Cost of one chair = ₹

So, Cost of 86 chairs = 500×86

= ₹

So, 86 chairs costs ₹ 43,000 .

$\begin{array}{r} 25 \overline{) 12,500} \\ \underline{500} \\ 0 \\ \underline{0} \\ 0 \\ \underline{0} \\ 0 \end{array}$	$\begin{array}{r} 500 \\ \times 86 \\ \hline \end{array}$
---	---

○ Solve.

1) We get 462 printouts in 1 minute from 7 xerox machines.

Then how many printouts one machine will give in 1 hour ?

.....
.....
.....
.....
.....
.....

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2) One hour is 3,600 seconds, hence 3 hours means how many seconds ?

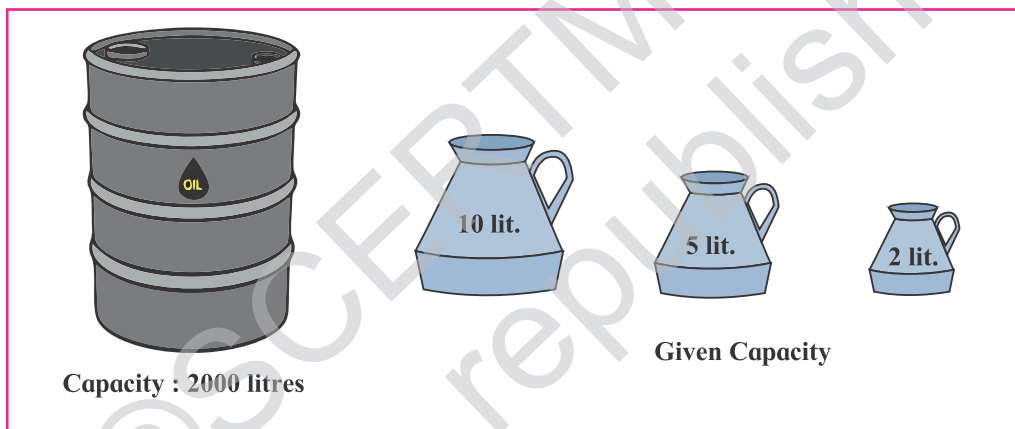
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3) How much is 33 times of 2,500 ?

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○ Observe the pictures and answer the given questions.




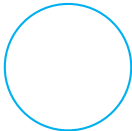
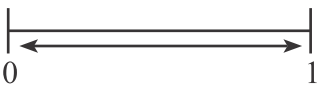

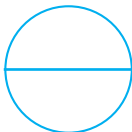
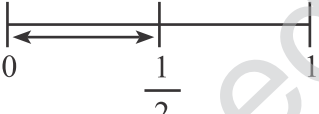





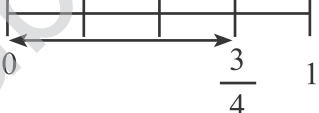
1) To fill the above oil tank completely, how many times 5 litres measure will be used ?

2) If the oil tank is filled with oil by using 10 litre measure 12 times, 5 litre measure 24 times and 2 litre measures 48 times. Find the total volume of oil in the tank ?


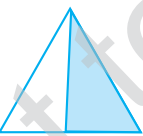

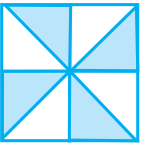


5. Play with Fractions

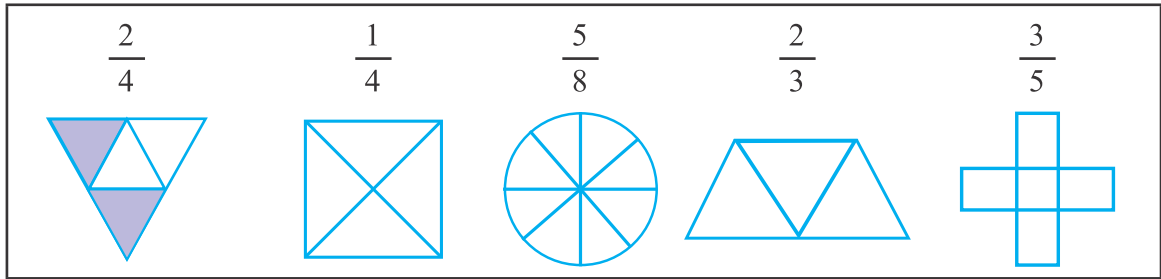
- Read the fractions and colour the figures accordingly.

Read		Figures		Observe
One	1			
Half	$\frac{1}{2}$			
Quarter	$\frac{1}{4}$			
Three Fourth	$\frac{3}{4}$			

- Complete the table.

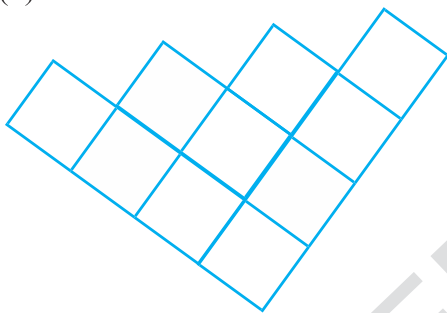
Picture	Shaded part	Unshaded part
	$\frac{1}{4}$	$\frac{3}{4}$
	$\frac{1}{2}$	
		$\frac{2}{6}$
		

- Colour the parts of figures with respect to given fractions.

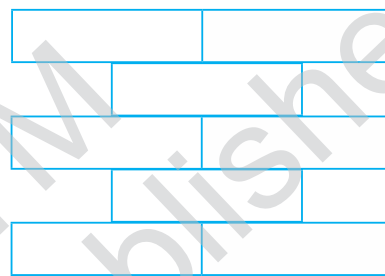


- Colour the half part of the given figure.

(1)



(2)



- Complete the activity.

1) In a box there are 12 cup cakes.

Mughdha ate $\frac{1}{4}$ cakes.

Encircle the number of cakes eaten by Mughdha in the adjacent figure.

Avanish ate $\frac{3}{12}$ cakes.

Encircle the number of cakes eaten by Avinash in the adjacent figure.

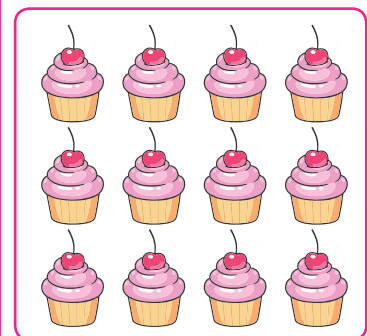
Mughdha says, Avinash ate more cakes than her.

But Avinash says that we both ate the same number of cakes

Whose statement do you agree with ? Why ?

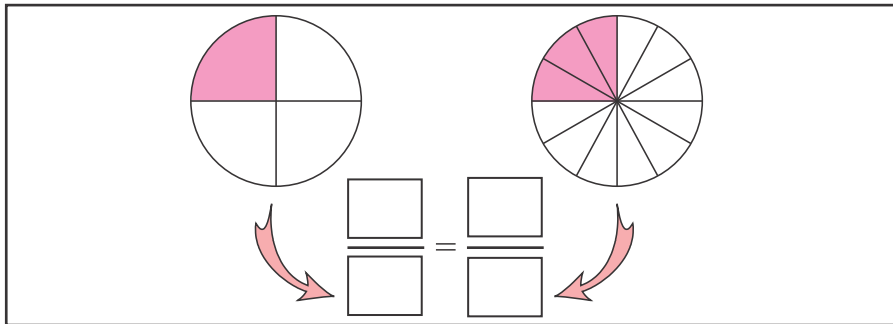
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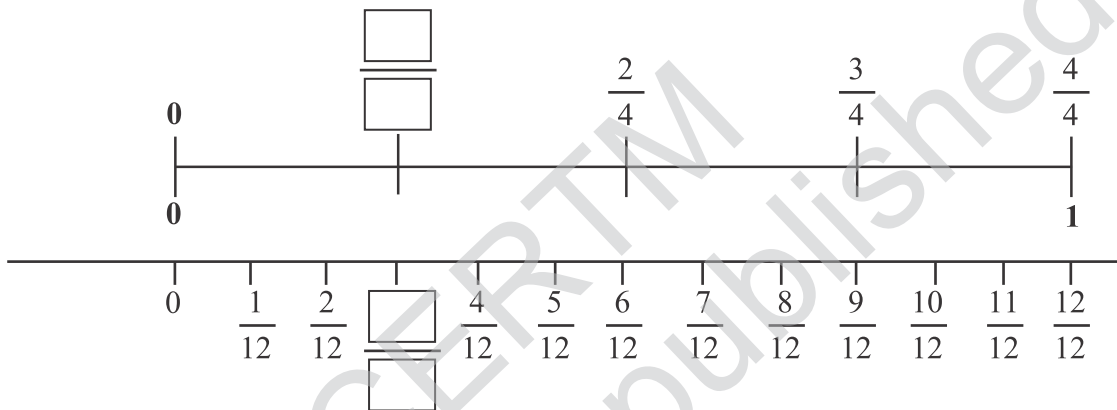


So, $\frac{\square}{\square} = \frac{\square}{\square}$

- Write down the fractions shown by the coloured part.



- Fill in the boxes.

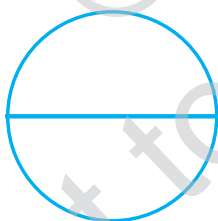


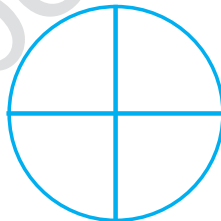
So, I. $\frac{2}{4} = \frac{6}{12}$

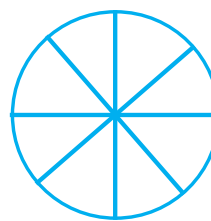
II. $\frac{3}{4} = \frac{9}{12}$

III. $\frac{\square}{\square} = \frac{\square}{\square}$

- Colour the fractional parts of these figures to represent Equivalent fractions.



$$\frac{\square}{\square}$$


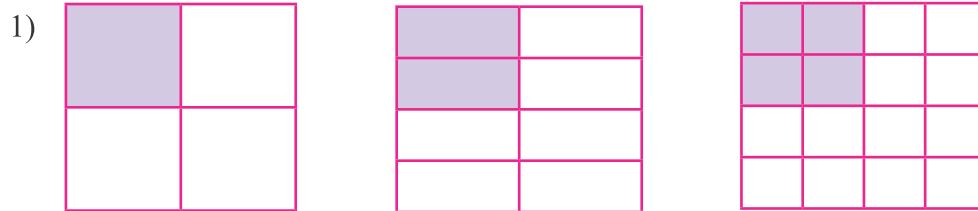
$$\frac{\square}{\square}$$


$$\frac{\square}{\square}$$

Even if the number of shaded parts in each figure is different, but they all are of same shapes.

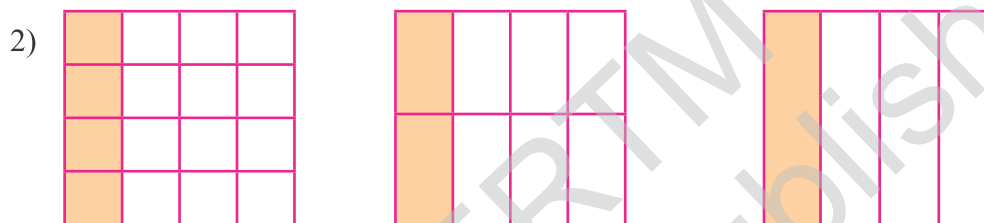
So, $\frac{\square}{\square} = \frac{\square}{\square} = \frac{\square}{\square}$ these fractions are called fractions.

○ Look at the shaded parts and write down the equivalent fractions.



$$\frac{1}{4} = \frac{1 \times 2}{4 \times 2} = \frac{2}{8} = \frac{\square \times 2}{\square \times 2} = \frac{\square}{\square}$$

To get equivalent fractions we can multiply both the numerator and denominator by the same number.



$$\frac{4}{16} = \frac{4 \div 2}{16 \div 2} = \frac{\square}{8} = \frac{\square \div 2}{8 \div 2} = \frac{\square}{4}$$

(Note that each figure is divided into equal parts to represent a fraction)

To get equivalent fraction we can divide the numerator and denominator by the same number.

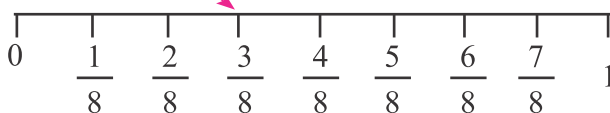
3) Write down correct numbers in the boxes to get equivalent fractions.

1) $\frac{5}{11} = \frac{5 \times 5}{\square} = \frac{25}{\square}$ 2) $\frac{\square}{60} = \frac{\square}{60 \div 10} = \frac{3}{6}$ 3) $\frac{\square}{\square} = \frac{\square}{\square} = \frac{1}{3}$

4) $\frac{7}{9} = \frac{\square}{9 \times 2} = \frac{\square}{18}$ 5) $\frac{3}{8} = \frac{\square}{8 \times 4} = \frac{\square}{32}$ 6) $\frac{2}{5} = \frac{2 \times 8}{\square} = \frac{16}{\square}$

4) Match the equivalent fractions.

$\frac{9}{24}$ $\frac{36}{48}$ $\frac{12}{16}$ $\frac{10}{40}$ $\frac{9}{72}$



5) Write down the equivalent fractions having 6 in the denominator.

1) $\frac{15}{30} = \frac{15 \div 5}{30 \div 5} = \frac{3}{6}$

2) $\frac{14}{42} =$

3) $\frac{32}{48} =$

4) $\frac{33}{66} =$

6) Write down the equivalent fractions having 24 in the denominator.

1) $\frac{1}{2} =$

2) $\frac{2}{3} =$

3) $\frac{4}{6} =$

4) $\frac{7}{8} =$

7) Write down equivalent fractions.

1) $\frac{2}{5} = \text{---} = \text{---} = \text{---} = \text{---}$

2) $\frac{3}{4} = \text{---} = \text{---} = \text{---} = \text{---}$

3) $\frac{7}{9} = \text{---} = \text{---} = \text{---} = \text{---}$

4) $\frac{5}{8} = \text{---} = \text{---} = \text{---} = \text{---}$

8) Complete the table.

$\frac{1}{3}, \frac{1}{6}, \frac{8}{10}, \frac{18}{29}, \frac{5}{4}, \frac{3}{10}, \frac{9}{7}, \frac{11}{9}, \frac{3}{4}, \frac{1}{2}, \frac{7}{4}, \frac{13}{29}$

Like Fractions		
Unlike Fractions		

○ Write the appropriate sign < , > or = in the box.

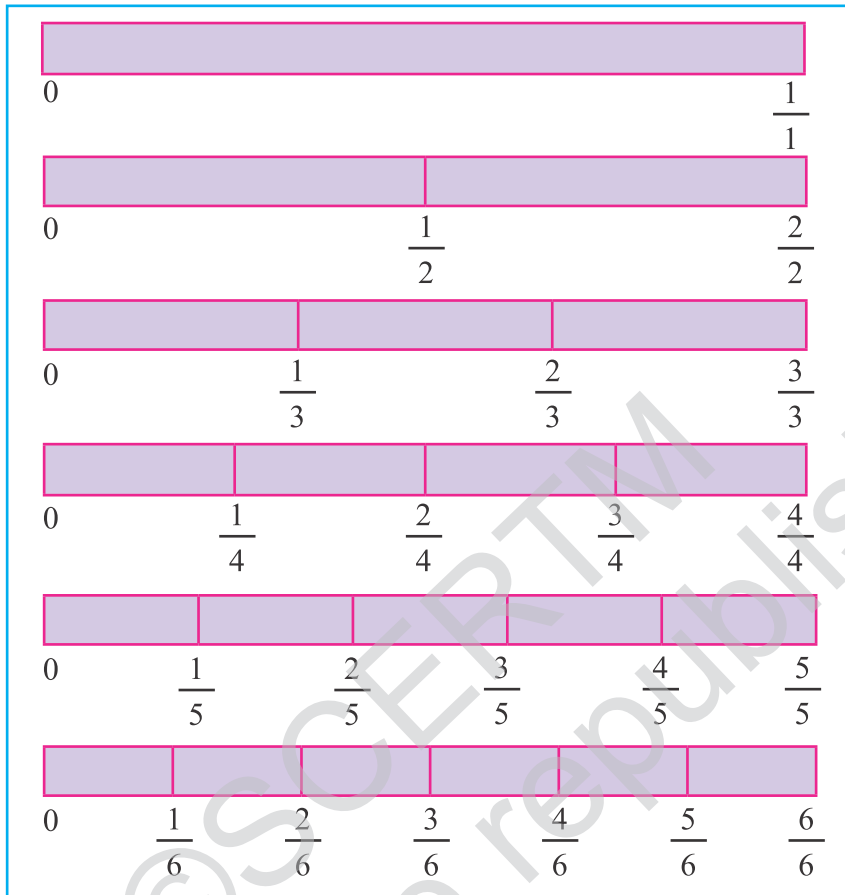
1) $\frac{7}{9}$ $\frac{5}{9}$

2) $\frac{4}{11}$ $\frac{6}{11}$

3) $\frac{3}{8}$ $\frac{3}{13}$

4) $\frac{5}{12}$ $\frac{5}{7}$

- Observe the shaded portion of the figure and compare the fractions using $<$, $>$ or $=$ signs.



1) $\frac{1}{5}$ $\frac{2}{3}$

2) $\frac{3}{4}$ $\frac{4}{6}$

3) $\frac{2}{4}$ $\frac{5}{6}$

4) $\frac{5}{5}$ $\frac{2}{2}$

5) $\frac{4}{5}$ $\frac{5}{5}$

6) $\frac{1}{2}$ $\frac{2}{3}$

- Gauravi says $\frac{3}{8}$ is greater than $\frac{3}{4}$. Because $8 > 4$. Do you agree with her? Explain.

.....

.....

- Compare.

1) $\frac{2}{3}$ and $\frac{3}{7}$

2) $\frac{2}{3}$ and $\frac{3}{5}$

3) $\frac{5}{6}$ and $\frac{3}{4}$

- Write any suitable numbers in the numerator of a fraction as per the given sign.

1) $\frac{\square}{15} > \frac{\square}{10}$

2) $\frac{\square}{7} < \frac{\square}{8}$

- Solve by completing the activity.

1) $\frac{2}{5} + \frac{1}{5} = ?$

	1 (whole)

2) $\frac{2}{7} + \frac{3}{7} = ?$

	1 (whole)

3) Solve.

i) $\frac{2}{9} + \frac{1}{9} = \dots\dots\dots$

ii) $\frac{4}{13} + \frac{8}{13} = \dots\dots\dots$

iii) $\frac{7}{6} + \frac{5}{6} = \dots\dots\dots$

iv) $\frac{3}{8} + \frac{4}{8} = \dots\dots\dots$

v) $\frac{9}{17} + \frac{7}{17} = \dots\dots\dots$

vi) $\frac{6}{21} + \frac{5}{21} = \dots\dots\dots$

Fractions - Word Problems

1) Father gave $\frac{2}{8}$ parts of chikki to Sony and $\frac{3}{8}$ parts of chikki to Rahul. How many parts of chikki did father give in all ?

2) Shamu sowed $\frac{1}{5}$ of the field with brinjal plant and $\frac{2}{5}$ of the field with Methiplant. How many parts of the field has he planted in all ?

○ Solve by completing the activity.

1) $\frac{4}{5} - \frac{2}{5} = ?$

	1 (Whole)

2) $\frac{6}{7} - \frac{3}{7} = ?$

	1 (Whole)

5
6

3) Sonu had $\frac{5}{6}$ part of the cake, from that she gave $\frac{3}{6}$ part of the cake to Anu. How much part of the cake is left with her ?

4) Suman sowed Marigold seeds in $\frac{3}{5}$ part and Jasmine seeds in $\frac{1}{5}$ part of her garden. By how much part the Marigold flower plantation is more than Jasmine ?

5) Fill in the boxes with numbers such that fraction is less than 1.

$$\frac{\square}{8} + \frac{\square}{8} = \frac{\square}{\square}$$

6) Check if solved sums are correct. If wrong, write the correct solution.

i) $\frac{1}{5} + \frac{2}{5} = \frac{3}{10}$

ii) $\frac{1}{5} + \frac{2}{5} = \frac{3}{5}$

iii) $\frac{3}{5} - \frac{2}{5} = \frac{1}{5}$

○ Solve.

1) $\frac{1}{8} + \frac{1}{4} = ?$

$$\frac{1}{8} + \frac{1}{4} = \frac{1}{8} + \frac{2}{8} = \frac{1+2}{8} = \frac{3}{8}$$

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

$\times 2$

2) $\frac{1}{3} + \frac{1}{12} = \frac{\square}{\square} + \frac{1}{12} = \frac{\square + \square}{\square} = \frac{\square}{\square}$

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

3) $\frac{1}{4} + \frac{1}{3} = ?$

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

$\times 3$ $\times 4$

$$\frac{1}{4} + \frac{1}{3} = \frac{\square}{\square} + \frac{\square}{\square} = \frac{\square + \square}{\square} = \frac{\square}{\square}$$

4) Use each of these digits 3, 4, 5, 6 only once so the sum is lowest fraction

$$\frac{\square}{\square} + \frac{\square}{\square} = \frac{\square}{\square}$$

5) Fill in the blanks with appropriate numbers to get 1.

$\frac{1}{2} + \text{---} = 1$

$\frac{3}{4} + \text{---} = 1$

$\frac{4}{10} + \text{---} = 1$

$\frac{9}{16} + \text{---} = 1$

○ Solve.

1) $\frac{1}{6} - \frac{1}{18} = ?$

$$\frac{1}{6} - \frac{1}{18} = \frac{3}{18} - \frac{1}{18} = \frac{3-1}{18} = \frac{2}{18} = \frac{1}{9}$$

$\frac{1}{6} = \frac{3}{18}$

$\times 3$

2) $\frac{3}{8} - \frac{1}{5} = ?$

$\frac{3}{8} = \frac{\square}{\square}$

$\frac{1}{5} = \frac{\square}{\square}$

$\times 5$ $\times 8$

$$\frac{3}{8} - \frac{1}{5} = \frac{\square}{\square} - \frac{\square}{\square} = \frac{\square - \square}{\square} = \frac{\square}{\square}$$

3) $\frac{1}{7} - \frac{1}{21} = ?$

4) $\frac{4}{5} - \frac{2}{3} = ?$

Fractions : Word Problems

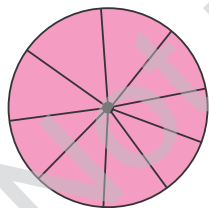
- 1) Aaryan subtracted two fractions to get $\frac{1}{8}$. Which are those two fractions ?
- 2) Adhishree bought $\frac{3}{4}$ litre of milk. She used some milk for making tea. Now $\frac{1}{2}$ litre of milk is left. How much litre of milk was used to make tea ?

$$\frac{\square}{\square} - \frac{\square}{\square} = \frac{1}{8}$$

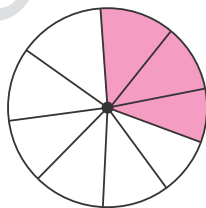
- 3) Anju and Ajit bought a pizza. Ajit ate $\frac{5}{12}$ of pizza and Anju ate $\frac{1}{4}$ of pizza and gave remaining part of pizza to Riya. How much part of pizza did Riya ate ?



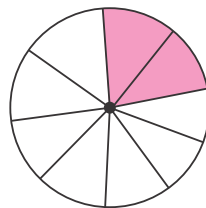
- 4) Mary's father baked a cake. After returning home from school, Mary saw $\frac{1}{3}$ of the cake left. She ate some pieces of cake and still $\frac{2}{9}$ was left. How much part of the cake did she eat ? Solve with the help of the figure given.



1 whole



$\frac{1}{3}$



$\frac{2}{9}$

$$\frac{\square}{\square} - \frac{\square}{\square} = \frac{\square}{\square}$$

So, $\frac{\square}{\square}$ part of the cake Mary ate

○ **Solve orally and write the answers in boxes.**

- 1) My mother made 16 laddoos. From that she gave half of the laddoos to grandmother. How many laddoos did grandmother get ?
- 2) Seema bought milk for half of the month in June. How many days did she buy milk in the month of June ?
- 3) Anita saves ₹ 2,000 each month. Her saving is quarter times of her salary. How much is her salary ?
- 4) Ishwari gifted 20 books to the school on her birthday. From that 15 were story books. Write this information in fraction form.
- 5) Raghav needs 60 kg of jowar and Sonia needs 120 kg of jowar in a year. Sonia's need of jawar is how many times that of Raghav's need of jawar ?
- 6) Raj purchased 1 m 500 cm. of cloth. If the cost of 1m cloth is ₹ 80, then what is the total cost of purchased cloth ?
- 7) Bharati has a land farm of 3 acres. Sujeet has half of the land farm which Bharati has. How much land Sujeet has ?

○ **Mother has made 4 Chapatis. She has to distribute equally among three children. Let us help mother in the distribution of chapatis.**

Method 1 :



We will divide the Chappati into 3 equal parts. Each $\frac{1}{3}$ part to be given four times

$\left(\frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3}\right)$ to each child. Means 1 whole plus one third part $\left(1 + \frac{1}{3}\right)$ or $\frac{4}{3}$ parts given to each child.

There is another method, to divide 4 chapatis equally among 3 children show it diagrammatically.

Method 2 :

○ Write whether true or false.

1) Mixed fractions are Improper fractions.

2) In improper fractions denominator is greater than the numerator.

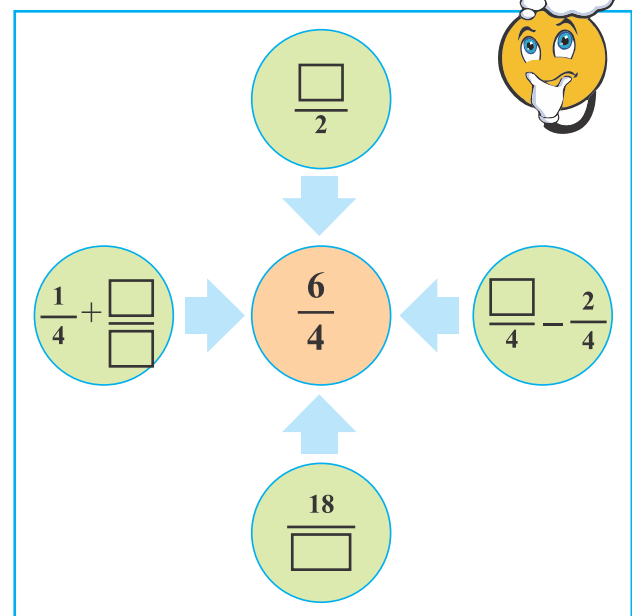
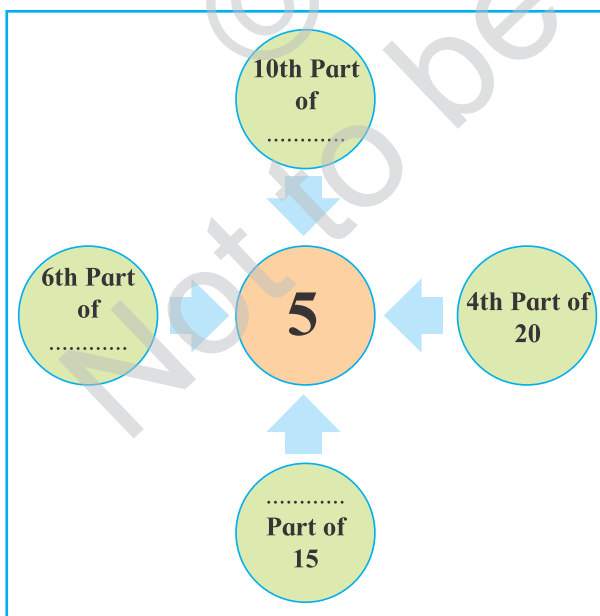
3) In proper fraction denominator is smaller than the numerator.

○ Sulekha and Ruby each have 2 chapatis of same size.

Sulekha ate 'one and half' chapatis while Ruby ate 'one and three quarter' chapatis. Show using the diagram total chapatis ate by them.



○ Fill in with correct numbers to get the answer given in the centre.



○ Complete the following table.

Sr. No.	Quantity	Half or $\frac{1}{2}$ times of	Three quarters or $\frac{3}{4}$ times of	Two third or $\frac{2}{3}$ times of
1	1 dozen bananas		$12 \times \frac{3}{4} = 9$ bananas	
2	₹ 96	$96 \times \frac{1}{2} = ₹ 48$		
3	60 pencils			40 pencils
4	60 minutes			
5	72 litres of water	36 litres		

○ Write the correct option number 1, 2, 3 or 4 in the box.

1) Shubhangi had 48 books. She gave half of the books to Aditya. Aditya gave half of the books from his collection to Sejal. How many books does Sejal have with her now ?

- 1) 24 2) 12 3) 6 4) 8

2) Abhinav spends $\frac{2}{7}$ of his salary in house rent, $\frac{3}{7}$ of salary in household expenses and remaining amount in Mutual fund investments. If he has a salary of ₹ 49,000. Then much money does he invest in Mutual Fund ?

- 1) ₹ 35,000 2) ₹ 14,000 3) ₹ 21,000 4) ₹ 24,500

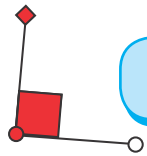
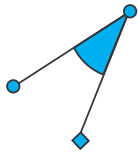
3) Anita read $\frac{3}{5}$ part of the book, still she has to read 24 pages to complete the book. How many pages are there in the book ?

- 1) 120 2) 72 3) 192 4) 60

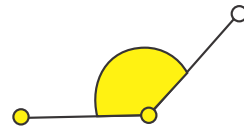
4) In a carton of one and half dozen mangoes, $\frac{1}{6}$ were rotten mangoes, then how many are nice mangoes ?

- 1) 18 2) 3 3) 15 4) 12

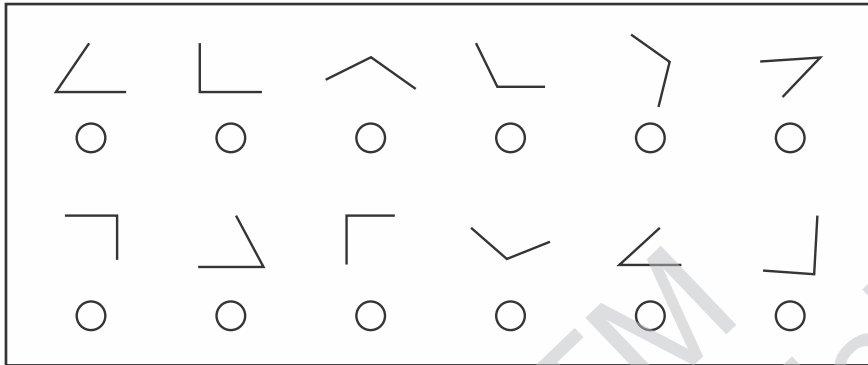
□□□



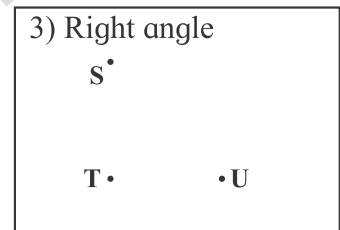
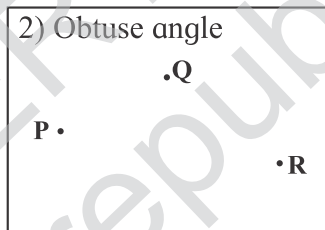
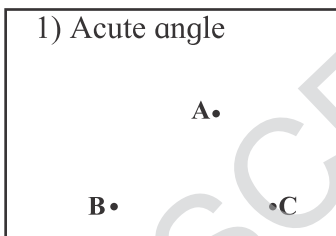
6. Drawing Angles



- Colour the circles below the obtuse angles in yellow, right angles in red and acute angles in blue.



- Join the dots and draw the said angles.



- Write your name in Block letters, Find the angles formed. Count the angles of each type and write in the table.



Example : My name is AMAN

AMAN

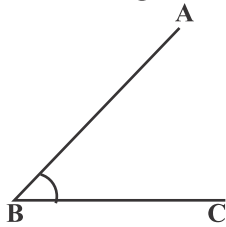
My name is



1	Acute angles	
2	Right angles	
3	Obtuse angles	

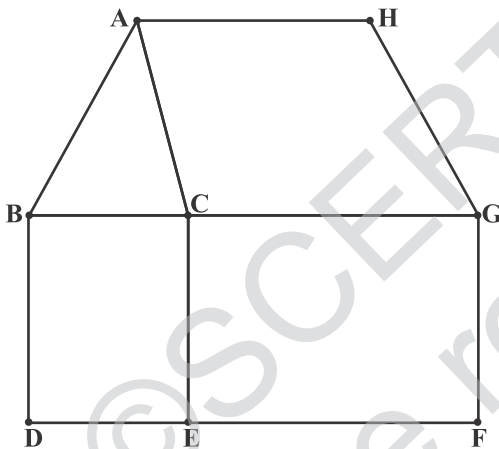
1	Acute angles	
2	Right angles	
3	Obtuse angles	

○ Look at the angle and fill in the blanks.



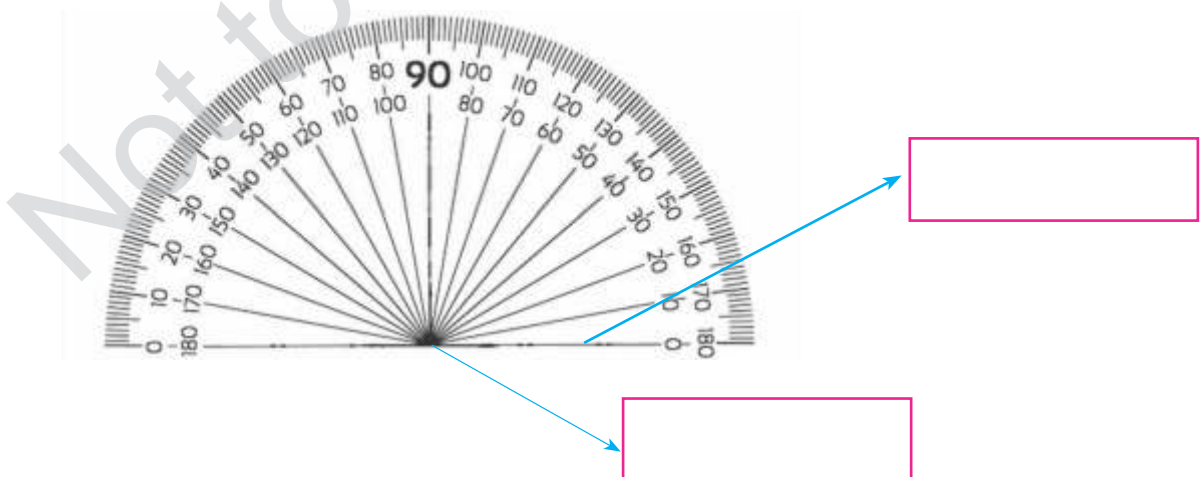
- 1) and are the arms/sides of the given angle.
- 2) Point B is common origin of both the arms of the angle, called as of the angle.
- 3) Angle is named with three letters and the middle letter is the of that angle.
- 4) Name of the given angle is written in two ways. or

○ Observe the figure and Complete the table.

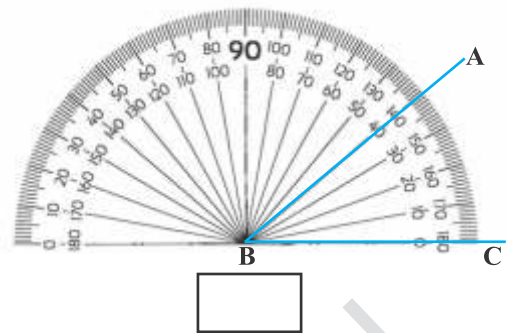
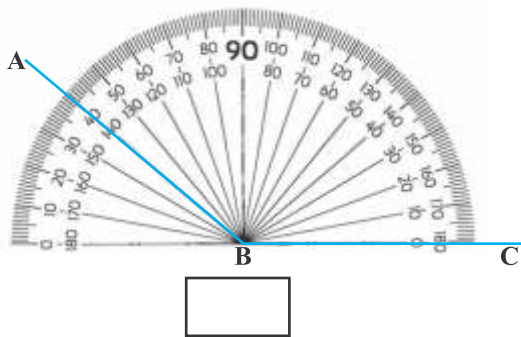


Name of angle	Vertex of angle	Arms of angle
$\angle ACB$ or $\angle BCA$	C	Arm CA and Arm CB
.....
.....
.....

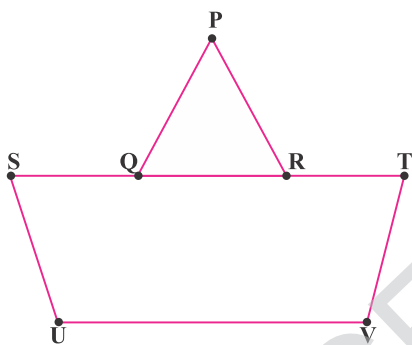
○ Fill in the boxes with appropriate names.



- Put a tick (✓) in the box which shows 40° angle.



- Measure each angle and write.



Measure of $\angle PRT = \dots\dots\dots$

Measure of $\angle SUV = \dots\dots\dots$

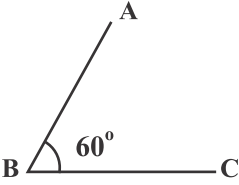
Measure of $\angle PQR = \dots\dots\dots$

Measure of $\angle TVU = \dots\dots\dots$

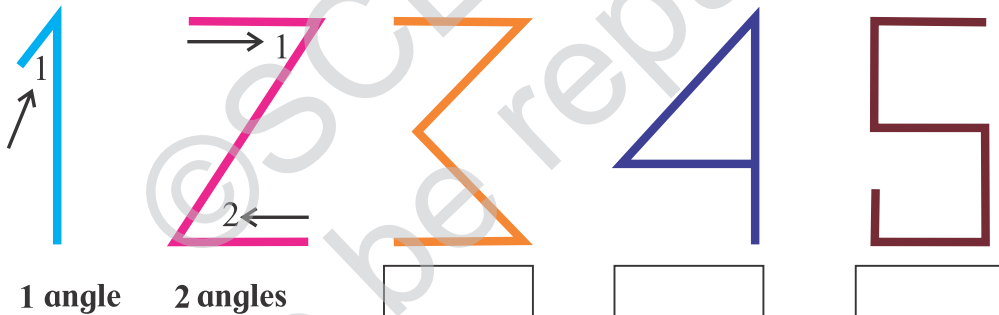
- Draw the angles of given measures using protractor.

1) 55°	2) 100°
3) 110°	4) 70°



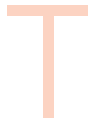



- Draw the angles using given information and name it accordingly.

Vertex – B, arm BA, arm BC, Measure of angle $ABC = 60^\circ$		$\angle ABC$
Vertex – Q, arm QR, arm QP, Measure of angle $QPR = 90^\circ$		
Vertex – T, arm TR, arm TS, Measure of angle $TSR = 130^\circ$		

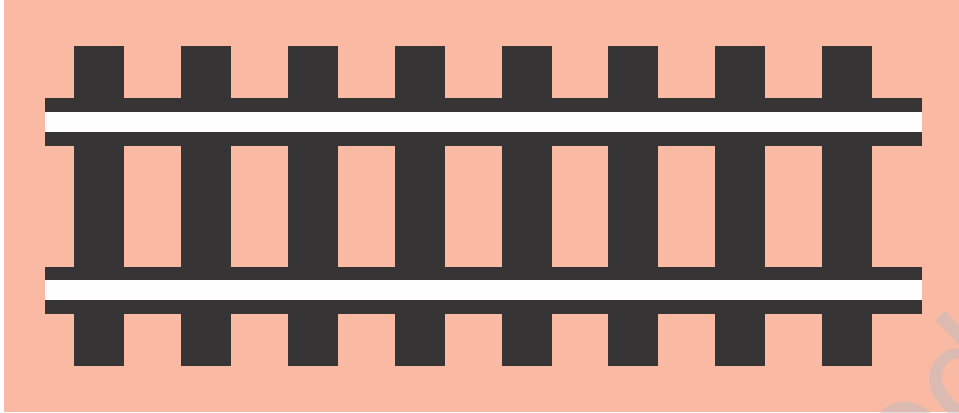
- Identify the number of angles.



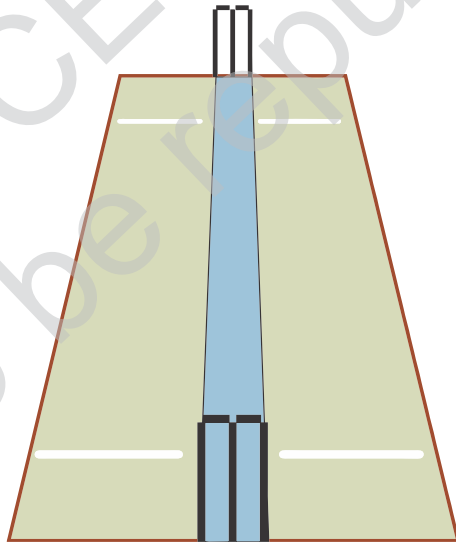
- Colour the parallel lines in red and perpendicular lines in blue.

		
Parallel lines	Perpendicular lines	Perpendicular lines
		
Perpendicular lines	Perpendicular lines	Parallel lines

- Look at the picture of railway track and fill in the blanks accordingly.



- 1) The rails of railway track are to each other.
- 2) The cement blocks below railway track are to each other.
- 3) Rails of railway track are to cement blocks.



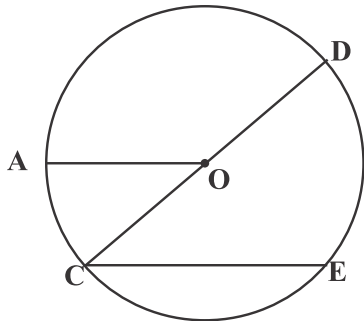
- 1) Sleepers are to each other.
- 2) Sleepers are to the playground.





7. Let's draw circle

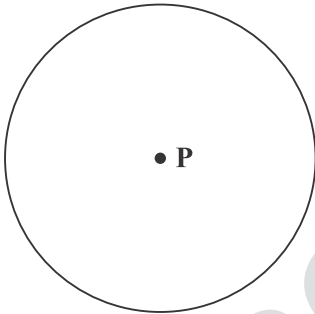
- Name the centre, diameter and chord of the circle.



Centre	
Radius	Segment OA
Diameter	
Chord	



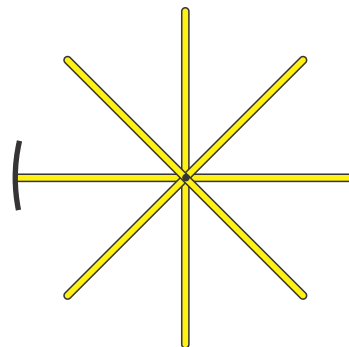
- Draw and name the radius, diameter and chord of the circle with center 'P'.



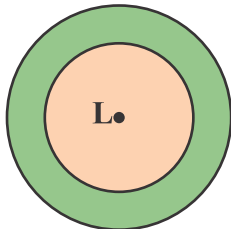
Centre	Point P
Radius	
Diameter	
Chord	



- Draw a circle with the given centre using compass.



- With point L as the centre, draw two circles with 2 cm and 3 cm radius using compass as shown in the adjoining figure.



• L

- With reference to the above question, measure the diameter of the two circles with point L as the centre and write.

Radius	2 cm	3 cm
Diameter		

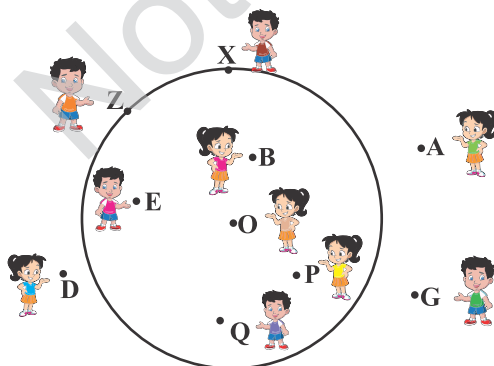
From this I understood that, **diameter of a circle is twice the length of its radius.**

∴ Diameter of a circle = × Radius or Radius of a circle = Diameter ÷

- Complete the table.

Radius	9 cm	11 cm			10 cm	
Diameter			12 cm	16 cm		6 cm

- For the circle with centre O, write the names the points which are in the interior, in the exterior of the circle and those on the circle.



Points in the interior of the circle are =

Points in the exterior of the circle are =

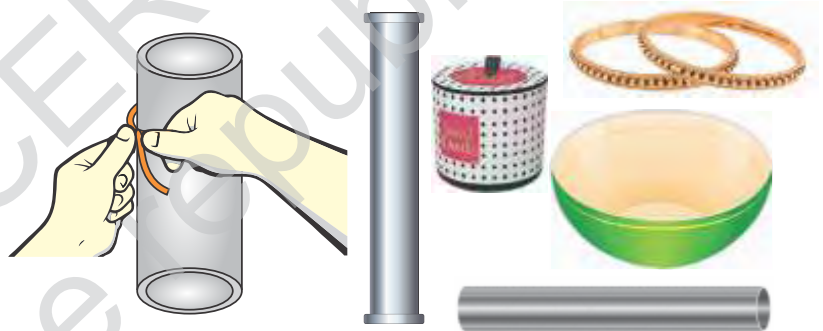
Points on the circle are =

○ Follow the instructions and complete the activity.

- 1) Draw a circle with 3 cm radius and T as the centre.
- 2) Show the points V, F, K, H in the interior of the circle.
- 3) Show the points L, M, N, O in the exterior of the circle.
- 4) Show points C and S on the circle.

○ As shown in the figure find the circumference of the objects in the surrounding and complete the table.

Object	Circumference (cm)
Pipe	
Circular box	
Bowl	
Pole	
Bangle	

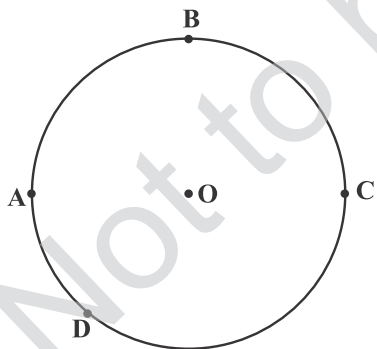


○ Write the names of the arc.

Sr. No.	Figure	Arc in red colour	Arc in yellow colour
1)		Arc PQR	Arc RSP

Sr. No.	Figure	Arc in red colour	Arc in yellow colour
2)	
3)	
4)	

○ Complete the table with the help of the figure.



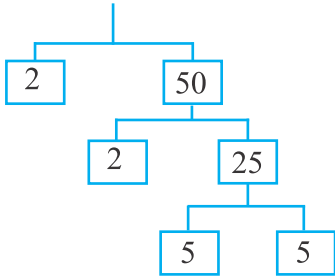
Sr. no.	End points of the arc	Name of the arc
1)	arc ABC and arc ADC
2)	Points B and D



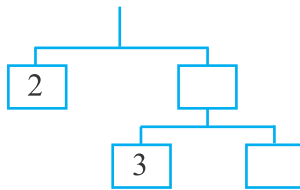
8. Let's Identify Multiples and Factors

○ Fill in the blank spaces with the factors.

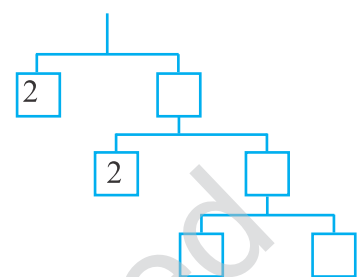
1) 100



2) 42



3) 88

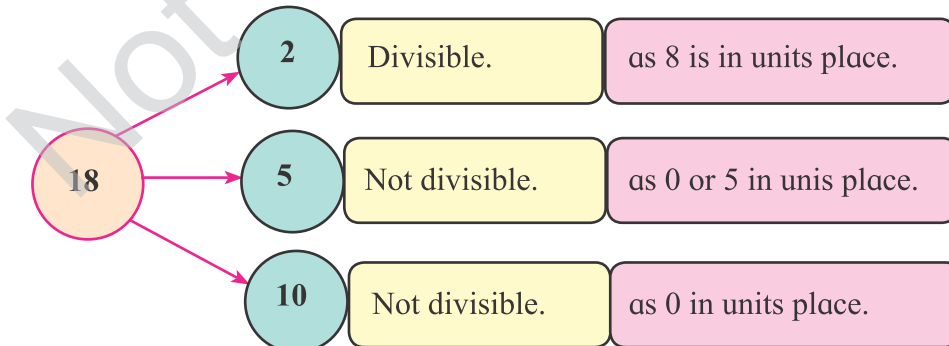


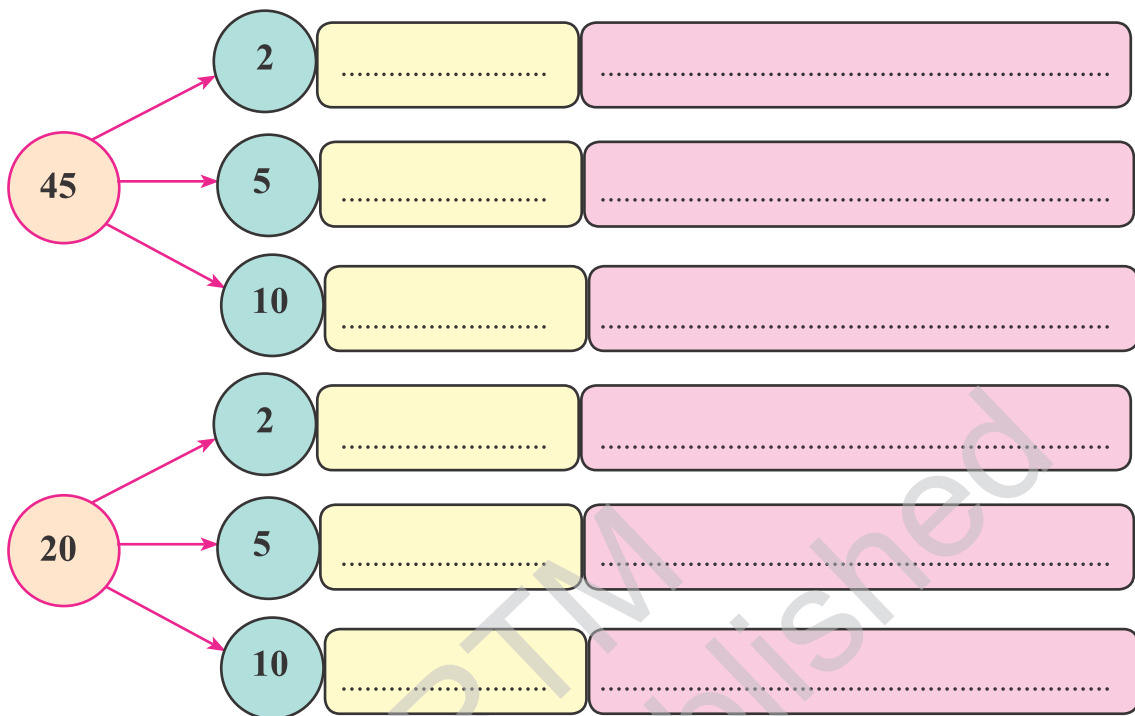
○ Classify the given numbers and complete the chart. (10, 22, 34, 46, 18, 20, 25, 15, 5, 42, 64)

Numbers divisible by 2	Numbers divisible by 5	Numbers divisible by 10
Digit in units place in above numbers		
If there is in the units place of the number, then that number is multiple of 2 means the number is exactly divisible by 2.	If there is in the units place of the number, then that number is multiple of 5 means the number is exactly divisible by 5.	If there is in the units place of the number, then that number is multiple of 10 means it is exactly divisible by 10.

○ State with reason whether 2, 5, and 10 are the factors of the given number or not.

Eg.





- Write all the factors of the given numbers. ○ Write any 4 multiples of the given number.

Number	Factors
20	1, 2, 4, 5, 10, 20
15	
50	
26	
18	
22	

Number	Number divisible
15	30, 45, 60, 90
22	
32	
17	
10	

- Observe the given numbers and complete the chart.

21	20	24	84	28	72	18	40	80	48
----	----	----	----	----	----	----	----	----	----

1) Write the numbers divisible by 4 and 5 :

2) Write the numbers divisible by 3 and 7 :

3) Write the numbers divisible by 6 and 8 :

Prime and composite numbers

- Complete the following table.

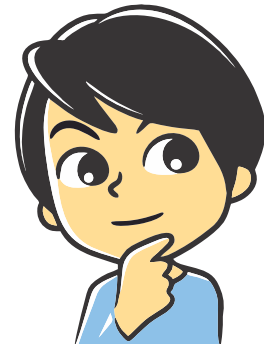
Number	15		19		31
Factors	1, 3, 5, 15	1, 2, 4, 8		1, 2, 3, 4, 6, 8, 12, 24	
Prime number	×				
Composite number	✓	✓			

- Write whether the given number is Prime or composite and put a ✓ in the correct column.

Sr. No.	Question	Number	Prime number	Composite number
1)	How many months are there in a year?	-	✓
2)	What is your age?		
3)	How many members are there in your family?		
4)	How many books do you have?		
5)	How many digits are there in a mobile number?		

- Write who am I ?

- I am the smallest composite number
- I am the greatest 2-digit prime number
- I am the only even prime number
- I am neither prime nor composite number
- I am smallest 2-digit prime number
- I am the greatest single digit composite number



- Write prime numbers in Raju's chart and composite numbers in Sarita's chart. (13, 21, 18, 17, 85, 32, 43, 56, 72, 77, 37, 83, 75, 46, 97)



Raju



Sarita

- Find the factors and decide whether the numbers are co-prime.

Ex. 20 and 18

Factors of 20 : 1, 2, 4, 5, 10, 20

Factors of 18 :

Common factors : 1, 2

There are more than one common factors.

∴ 20 and 18 are **not co-prime**

Ex. 15 and 8

Factors of 15

Factors of 8

..... is the only common factor.

∴ 15 and 8 are **co-prime**

Ex. 16 and 25

Factors of 16

Factors of 25

Common factors

..... is the only common factor.

∴ 16 and 25 are

Ex. 24 and 40

Factors of 24

Factors of 40

Common factors

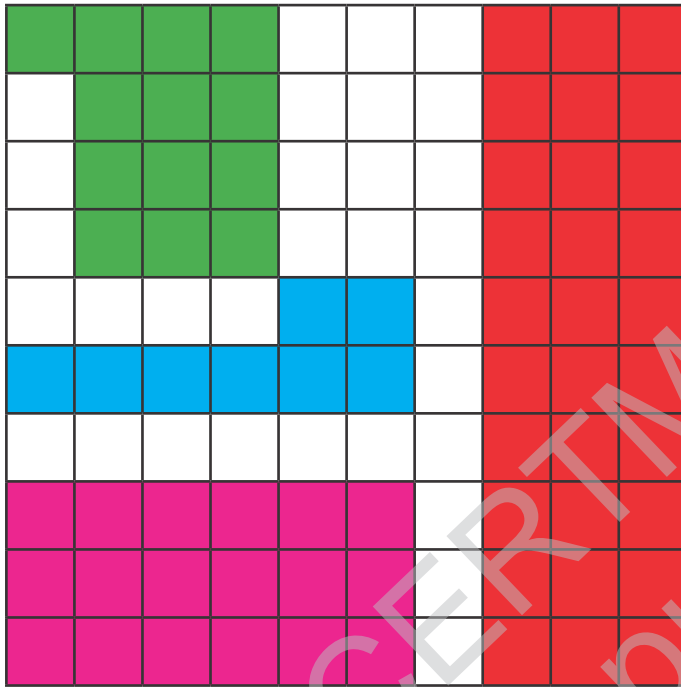
..... are the common factors.

∴ 24 and 40 are



9. Let's learn Decimals

- Write the decimal fraction for the each coloured part.



Green part = $\frac{13}{100} = 0.13$

Red part = $\frac{\boxed{}}{\boxed{}} = \boxed{}$

Blue part = $\frac{\boxed{}}{\boxed{}} = \boxed{}$

pink part = $\frac{\boxed{}}{\boxed{}} = \boxed{}$

- Colour the following strip to show 0.7



- Complete the following table. Write the place values of Decimal number.

Number ↓	Place and place value →	Hundreds	Tens	Ones	Tenths	Hundredths
142.53		1×100 = 100	4×10 = 40	2×1 = 2	$5 \times \frac{1}{10}$ = 0.5	$3 \times \frac{1}{100}$ = 0.03
20.19						
5.3						
0.8						

- Observe the picture and write a number for the same.

1 whole	Wholes 10 th part = One tenth = $\frac{1}{10}$	Wholes 100 part One hundredth = $\frac{1}{100}$

Units	Tenths	Hundredths
2.34		

Units	Tenths	Hundredths

Units	Tenths	Hundredths

Units	Tenths	Hundredths

○ Solve the following.

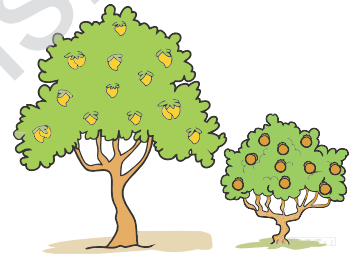
- i) Ganesh needs two-and-a-half-metre cloth to stitch a shirt and one and a quarter metre cloth for a pant. How much cloth does in total he need to stich both?

Tens	Units	Tenths	Hundredths

Ganesh needs m. of cloth.



- ii) Height of a chikoo tree is 1.78 m and that of a mango tree is 2.29 m. What is the difference in the heights of the trees?



Difference between the heights of the trees is metres.

○ Complete the following activity.

$$\frac{12}{1} = 12$$

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

$$\frac{12}{\boxed{}} = 0.12$$

$$\frac{\boxed{}}{1000} = 0.012$$

$$\frac{12}{\boxed{}} = 0.0012$$

$$\frac{1}{10} = 0.1$$

$$\frac{1}{100} = \boxed{}$$

$$\frac{1}{1000} = 0.001$$

$$\frac{1}{10000} = \boxed{}$$

○ Fill in the blanks with correct numbers.

• $0.12 = \frac{1.2}{10} =$

• $0.02 = \frac{\boxed{}}{\boxed{}}$

• $\boxed{} = \frac{45}{10}$

• $8.192 = \frac{8192}{\boxed{}} = 8 \frac{\boxed{}}{\boxed{}}$

○ Complete the table.

Half	$\frac{1}{2}$	0.5
quarter		0.25
	$\frac{3}{4}$	0.75
1 Whole	1	

○ Fill in the blanks.

100 paise = 1.00 rupees

75 paise = rupees

50 paise = 0.5 rupees

25 paise = rupees

100 cm = 1.00 metre

50 cm = metre (half metre)

25 cm = 0.25 metre = metre

.....cm =metre (three quarter metre)

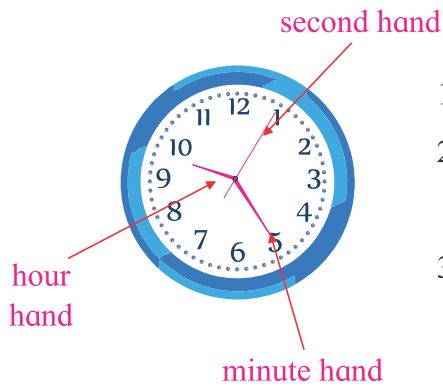
○ Match the following.

$\frac{1}{2}$	Two and a half	0.75
$1 \frac{1}{4}$	half	7.5
$2 \frac{1}{2}$	One and a quarter	0.5
$\frac{3}{4}$	Seven and a half	1.25
$7 \frac{1}{2}$	Three fourth or three quarter	2.5



10. Let's tell time

○ Observe.



Who am I?

- 1) I move fastest in the clock, so who am I
- 2) When second hand completes one round, I move one place ahead. So who am I
- 3) When second hand completes 60 rounds, I move to the next hour. Who am I

○ Write how much time you need to complete the following activity.

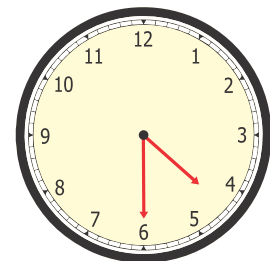
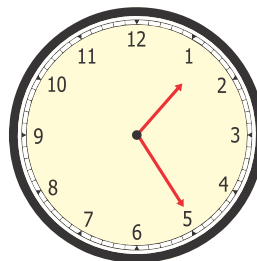
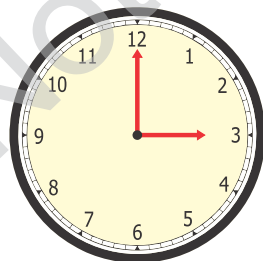
1) Washing your hands 

2) To fill a glass with water 

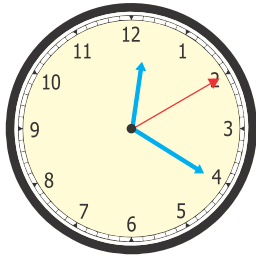
3) To fold a blanket 

4) To wear school uniform 

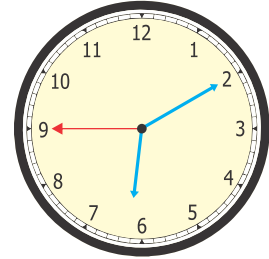
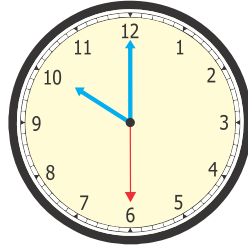
○ Write the time shown by the clock in the boxes given below it.



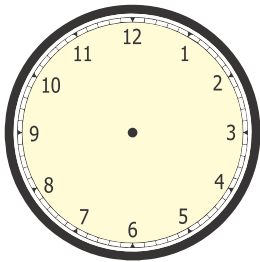
- Write the time shown by the clock in the boxes given below it.



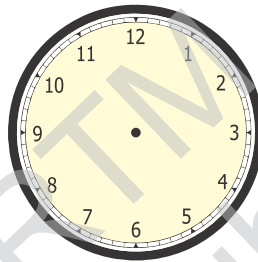
10 seconds 20 minutes past 12



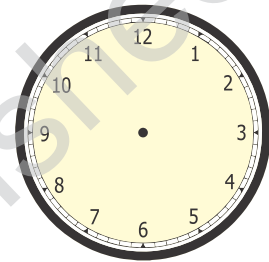
- Draw hands of the clock to show the given time.



10 minutes past 5



30 minutes past 12



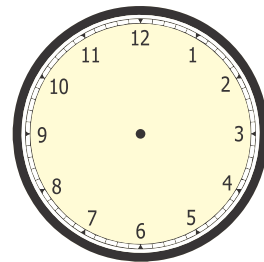
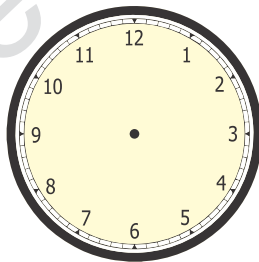
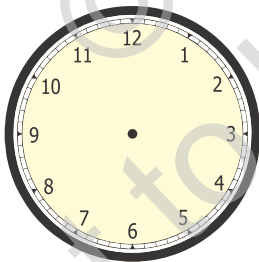
45 minutes past 9

- Draw hands of the clock to show the given time.

25 seconds 20 minutes past 3

30 seconds 40 minutes past 12

50 seconds 10 minutes past 9

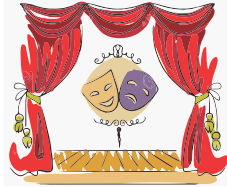


- Solve the following examples.

1) Anu and Aryan left the bus stop at 8:00 am in the morning and reached home after an hour. What must be the time in the clock when they reached home?

Time when they left the bus stop	
Time taken to reach home	+
Time when they reached home	

- 2) Three hours play ended at 11:00 pm at night. What time did the play start?



- 3) A plane departed Mumbai airport at 11:45 am and reached Nagpur at 13:30 pm. What is the duration of flight?



- 4) John started working on his computer at 9:00 am and stopped for lunch at 1:30 pm. How much time did he spend working on computer?

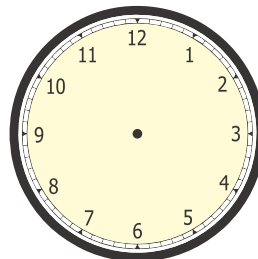
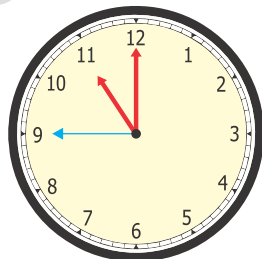


- 5) Painting job at Rohan's house started at 10:30 and ended after 4 and a half hours. At what time the job was completed?

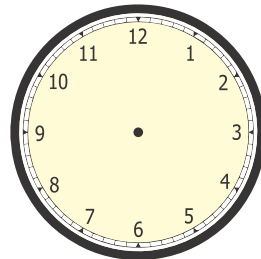
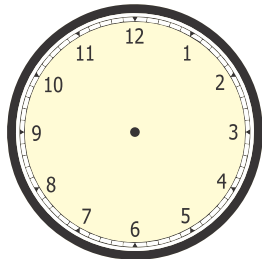


- Read the activity and show the start and end time in the clock given below.

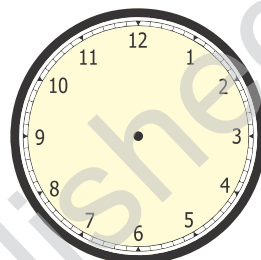
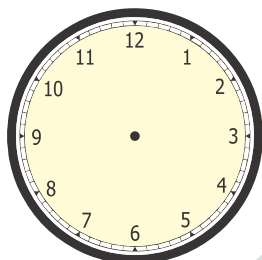
- 1) Varad's online school starts at 11:00 am and ends at 1:30 pm.



2) Priya started studying at quarter to two and completed after one and a half hour.



3) Sonu goes for tuition at 3:30 pm and returns after two and a half hour.



○ Write the given statements using ante meridiem and post meridiem.

Ex. Suhas goes to school at 11:00 in the morning and returns at 5:00 in the evening.

→ Suhas goes to school at 11:00 am and returns at 5:00 pm.




1) I started my journey early morning at 5:00 and reached home at 1:00 noon.

.....

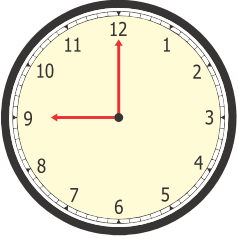
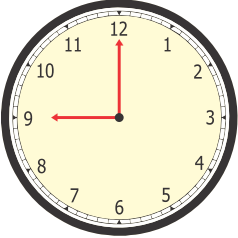
2) Sanchita started studying at 6:00 in the morning and went for breakfast at 8:30 in the morning.

.....

○ Write down the time Mother took to complete her journey.

 <p>I was in a train from 5 to 7. I am tired.</p>	 <p>Are you tired by journey of just 2 hours?</p>	 <p>Dear I travelled from early morning 5 till 7 in the evening.</p>
<p>How much time did mother take to complete her journey?</p>		

- Write the given time as per 12 hour and 24 hour clock.

<p>Morning time</p> 	<p>As per 12 hour clock</p>
	<p>As per 24 hour clock</p>
<p>Night time</p> 	<p>As per 12 hour clock</p>
	<p>As per 24 hour clock</p>

- Write the given time as per 24 hour clock

12 : 45 pm →

01 : 15 pm →

05 : 05 am →

04 : 25 pm →

07 : 35 am →



- Write the given time as per 12 hour clock.

13 : 45 →

23 : 10 →

05 : 15 →

17 : 25 →

03 : 00 →



○ The time below is given by 12 hour clock. Write the same for 24 hour clock.

1) 25 minutes past 6 in the morning

2) 40 minutes past 9 in the morning

3) 50 minutes past 3 in the evening

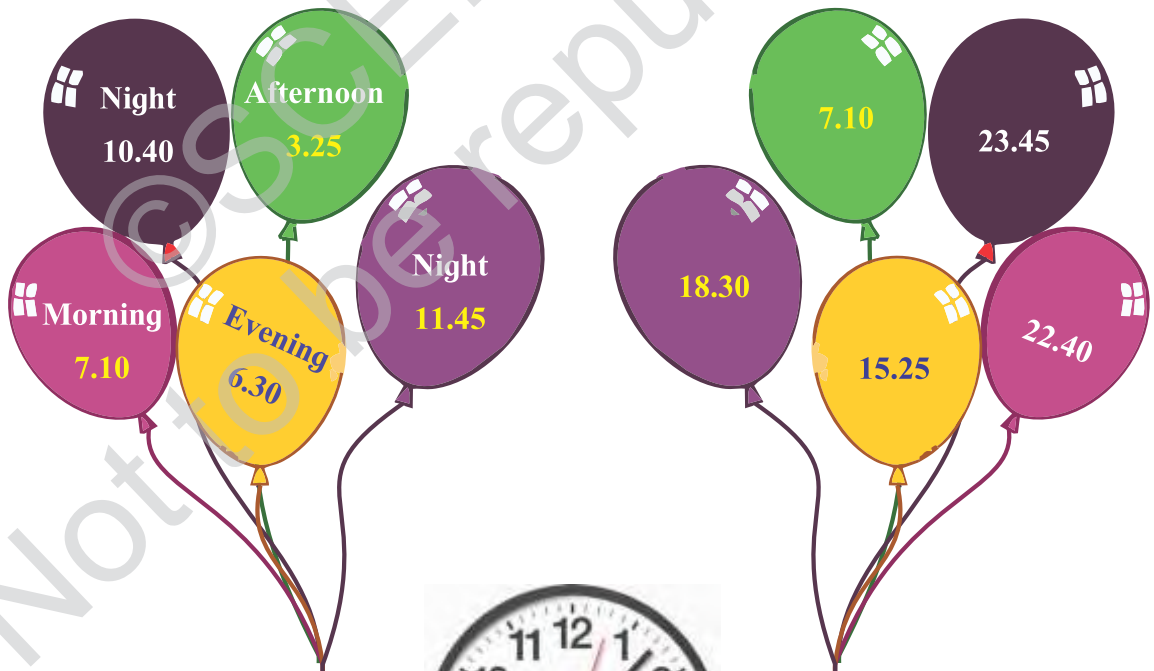
4) 35 minutes past 10 at night

5) 05 minutes past 8 at night

○ Join the balloons showing the same time as per 12 hour and 24 hour clock.

12 hour clock

24 hour clock



○ **Solve the following examples.**

- 1) John travelled 3 hours 25 minutes by train and 1 hour 30 minutes by bicycle. How long did he spend in travelling?

- 2) Lata decorated the house from 9:30 in the morning till 2:00 in the afternoon and again she completed the remaining work from 3:00 to 4:30 in the afternoon. How long did she work?

- 3) Sharad worked for 5 hours 30 minutes in the office and for 1 hour 45 minutes online work from home. How longer did Sharad work at office then at home?



11. Solving Problems on Measurement

○ Solve the following examples.

1) $42 \text{ km } 425 \text{ m} + 28 \text{ km } 745 \text{ m}$

km	m

2) $82 \text{ km } 856 \text{ m} - 29 \text{ km } 632 \text{ m}$

km	m

3) $58 \text{ kg } 300 \text{ g} + 47 \text{ kg } 685 \text{ g}$

kg	g

4) $48 \text{ kg } 533 \text{ g} - 26 \text{ kg } 378 \text{ g}$

kg	g

5) $89 \text{ lit. } 107 \text{ ml} + 52 \text{ lit. } 811 \text{ ml}$

l	ml

6) $99 \text{ lit. } 642 \text{ ml} - 52 \text{ lit. } 607 \text{ ml}$

l	ml

7) 28 Rupees 40 Paise + 67 Rupees 90 Paise

Rupees	Paise

8) 78 Rupees 90 Paise – 67 Rupees 15 paise

Rupees	Paise

○ Solve the following word problems.

1) Lokesh travelled 42 km 400 m by bus and 87 km 300 m by train. How much distance did he travel in all?

2) Anushka travelled 55 km 400 m in the morning to go to her uncle's house and travelled back to her home in the evening. How much did Anushka travel?

3) In a grocery shop there was 109 kg 300 g sugar left. The grocer purchased 250 kg more sugar from the market. What is the total quantity of sugar in the shop now?



4) To help the flood affected people, Mahesh donated 69 kg 700 g of wheat and Hemangi donated 77 kg 300 g of wheat. What is the total wheat did the flood affected people get?

- 5) At a milk collection centre 123 lit. 600 ml of cow's milk and 208 lit. 300 ml of buffalo's milk was collected. How much milk was collected at the milk collection centre?



- 6) In a day a petrol pump sells 500 lit. 800 ml of petrol and 700 lit. 200 ml of diesel. How much fuel was sold on that day?



- 7) Peter has 719 rupees 80 paise in his bank account and 999 rupees in a cupboard at home. How much money does Peter have in total?
- 8) Sanjana shopped for 548 rupees 75 paise and Ahmed shopped for 400 rupees and 75 paise. In total how much money did they spend?
- 9) The distance between Kapil and his uncle's village is 438 km. He took a halt after travelling for 219 km 100 m. How much more distance does he have to travel?
- 10) The total distance to be covered in a bicycle race is 20 km 200 m. At present Naina has covered 18 km 700 m. How much more distance she has to cover to complete the race?

- 11) A vendor has 568 kg 300 g of oil. Out of this he sold 199 kg 700 g of oil. How much oil is left with the vendor now?
- 12) 247 kg 900 g of apples were purchased to be distributed in a hospital. If 101 kg 250 g were distributed, then what quantity is still left?
- 13) Ramesh and Salim purchased goods worth 450 rupees 50 paise. Ramesh paid the bill. If out of the total bill Salim's goods were of 248 rupees, then find the cost of Ramesh's goods?
- 14) The cost of one toy is 723 rupees 50 paise. If Janardan has 549 rupees with him, how much more money he needs to buy that toy?



15) Quantity of cloth required to stitch a cover for a 4-wheeler is 15 m 100 cm. If 13 such car covers are to be stitched then, what is the quantity of cloth required?

16) If Julee needs 2 m 50 cm of cloth to stitch a frock then, what is the length of the cloth needed to stitch 3 such frocks?



17) If the length of cloth needed to stitch a uniform is 2 m 50 cm then, what is the length of the cloth needed to stitch 5 such uniforms?



18) A milkman has to distribute milk to 20 houses. If each family requires one and a quarter of milk then, what is the total quantity of milk distributed?

19) 30 families stay in a village that faces shortage of water. If it is decided to give 15 lit. 500 ml of drinking water to each family then, what is the quantity of drinking water needed?

20) Price of one bottle of medicine is 45 rupees. If Mahendra wants to buy 25 such bottles then, how much money will he have to pay?





- 21) Cost of Keshar mango is 70 rupees per kg. How much money will Salma need to buy 10 kg mangoes?

- 22) If a cloth of length 5 m 55 cm is cut into 5 equal pieces then, Find the length of each piece.

- 23) If 10 sign boards are to be fixed at equal distance on a road of length 9 km then, what will be the distance between 2 boards?



- 24) 10 m 50 cm long cloth is cut into the pieces of 25 cm each. How many pieces will be made?

- 25) 760 kg of bajra is to be distributed equally amongst 8 needy families. What quantity of bajra will each family get ?

- 26) If 50 g snacks is there in one packet then how many packets can be formed with 2 kg 500 g of snacks ?

- 27) In a jewellery shop, mother gave 30 g. gold and asked to make rings of 2 g 500 mg each. How many rings will be made?
- 28) If seven and a half kg of rice is to be filled in jar of capacity half kg then, how many jars will be needed?
- 29) A seller of selling cold drinking water has 760 litres of water. If this water is filled in the can of capacity 20 litres each then, how many cans will be required ?
- 30) A centre selling buttermilk sold quarter to two litre of buttermilk. This buttermilk is distributed as quarter litre per person then how many persons will get the buttermilk ?
- 31) 3 lit. 600 ml of sugarcane juice was distributed equally amongst four boys. How many milliliters of sugarcane juice did each boy get ?
- 32) For working in an orchard wages paid is 1000 rupees. If this amount is to be distributed amongst 4 labourers equally then, how much money will each labour get ?



○ At what distance is Reena's house ?



Distance between old fort and Meena's house is 2 km 500 m

Distance between old fort and Reena's house is 3 km 725 m

So, at what distance is Reena's house from Meena's house

○ Fill in the boxes with correct quantity.

1) 1000 metres = kilometre

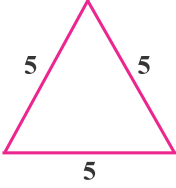
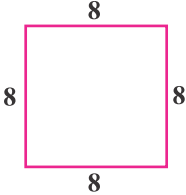
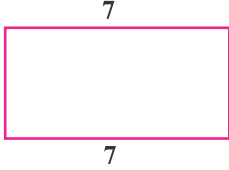
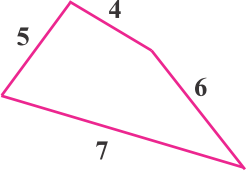
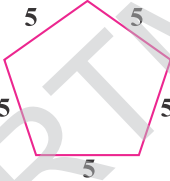
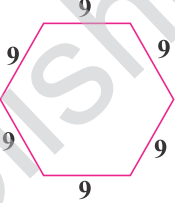
2) 1000 millilitres = litres

3) 1000 gram = kilogram



12. Measuring Perimetre

- Write the perimetre of the given figures. Length of sides is in centimetres.

		
Perimetre is cm	Perimetre is cm	Perimetre is cm
		
Perimetre is cm	Perimetre is cm	Perimetre is cm

- Solve the following examples.

1) Sides of a closed figure are 10 cm, 20 cm, 15 cm, 28 cm and 9 cm. What is its perimetre?

2) Every morning Mahesh walks 4 rounds around a rectangular garden of length 280 m and breadth 100 m. How much distance does Mahesh walk everyday?



- Observe the given figure and write its perimeter.

Perimetre = cm

Perimetre = cm

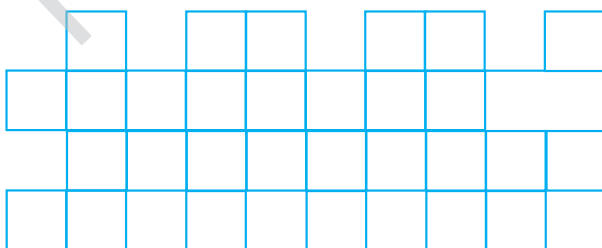
Perimetre = cm

- Solve the following examples.

1) The length of a rectangular plot is 80 m and its breadth is 25 m. If a 3 layered of wire fencing is to be done along its boundary, then, what is the length of the wire needed?

2) Every morning Rohan jogs 5 times around a square playground of side 30 m. How much distance does he cover everyday?

- Find the perimeter of the following figure. (The side of each square is 1 cm.)



Perimetre of the figure=

Area

○ **Solve the following examples by filling in the blanks.**

1) In figure A, side of each square is 1 cm.

There are 5 rows of squares of side 1 cm.

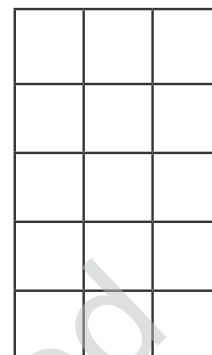
There are 3 columns of squares of side 1 cm.

Therefore in all there are $5 \times 3 = 15$ squares of 1 cm each

Figure A occupying space of 15 squares of side 1 cm each.

Therefore, area of figure A is 15 sq cm.

Figure A



2) In figure B side of each square is 1 cm.

There are rows of squares of side 1 cm.

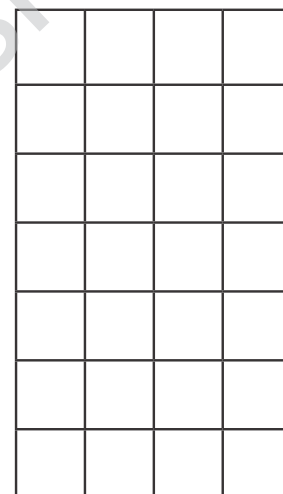
There are columns of squares of side 1 cm.

Therefore \times =

Figure B occupying space of squares of side 1 cm each.

Therefore, area of figure B is sq cm.

Figure B



○ **Solve the following examples.**

1) The length and breadth of a rectangular playground is 75 m and 45 m respectively. What is the area of the ground?

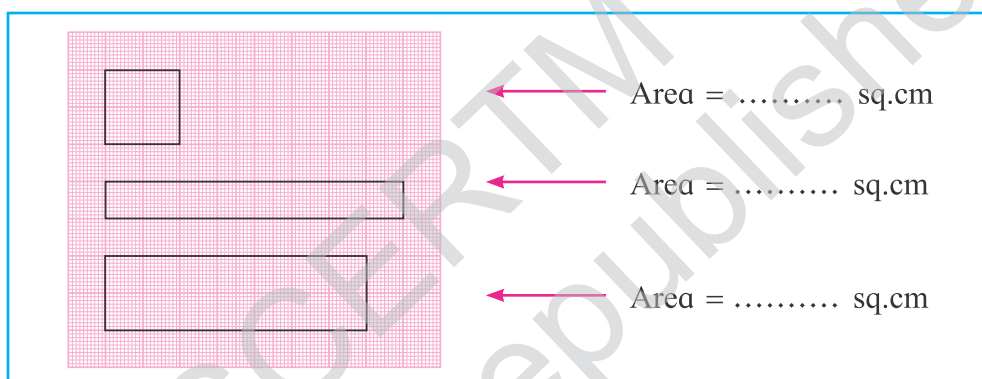


2) A square room with side 5 m has to be fitted with tiles. If the cost of tiling 1 sq m is 45 rupees, what will be the total cost of tiling?



- 3) A rectangular field has length 100m and breadth 60m. If the rate of selling 1 sq.m of the field is 3000 rupees then, what will be the selling price of that field?

- Observe the figure and write the area in the blanks.



Word Problems

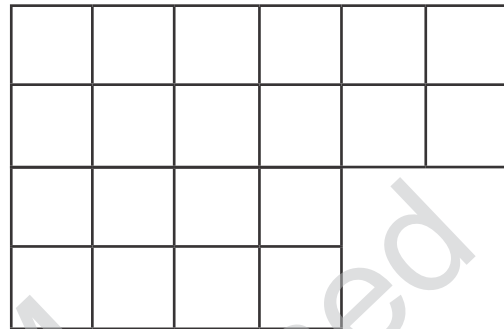
- Solve the following examples.

- 1) Side of a square piece of land is 60 m. If the rate of selling is 950 rupees per square metre then, what is the total cost of the land?
- 2) A rectangular garden has length 80 m and breadth 40 m. The cost of growing grass lawn in the garden is 100 rupees per square metre. What will be the total cost incurred?

3) Length of side of square is given. Find its area.

- 1) 18 cm 2) 22 cm

4) Divide the given figure in 5 parts having same area. Colour each part with different colours.

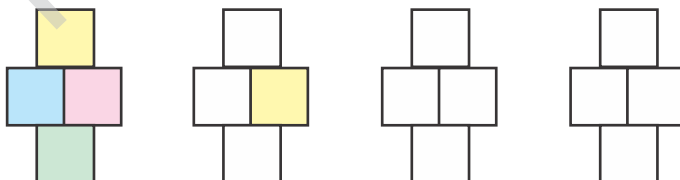


○ Complete the following table.

Sr. No.	Length	Breadth	Perimetre	Area
1	7 cm	3 cm		
2	12 m	8 m		
3	34 cm	10 cm		
4	24 cm	9 cm		
5	120 cm	2 cm		

○ Let's have some fun.

(which colour will come on the top after rotating the figure each time by 90°)



13. Learning three dimensional shapes and nets

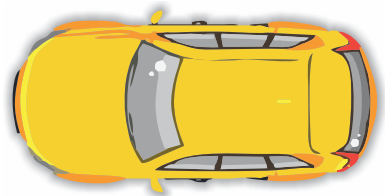
- Objects that have length and breadth but has no or negligible height are called
(two dimensional objects/three dimensional objects)
- Classify the given objects as two dimensional or three dimensional.
Book, table, doll, alphabet written on paper, car, elephant's photo

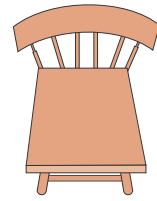
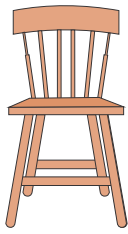
Two dimensional	Three dimensional
<p>.....</p> <p>.....</p>	<p>.....</p> <p>.....</p>

- Given are two dimensional pictures of objects. Write below each whether it is top view, front view or side view.



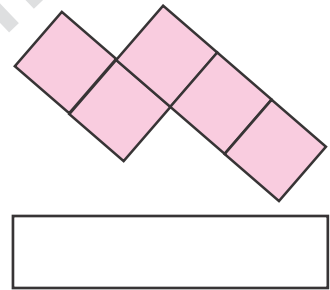
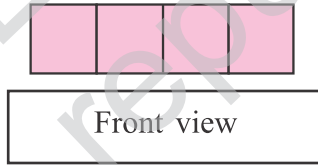
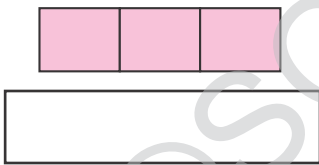
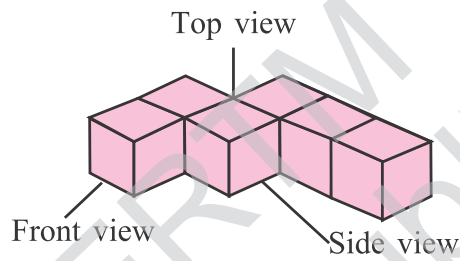
Front view



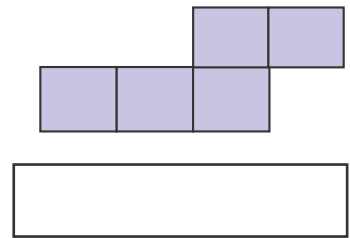
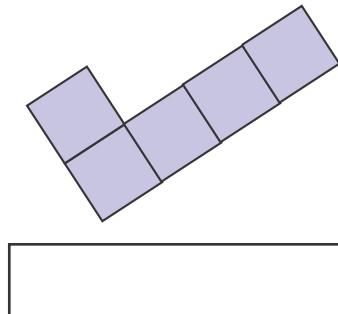
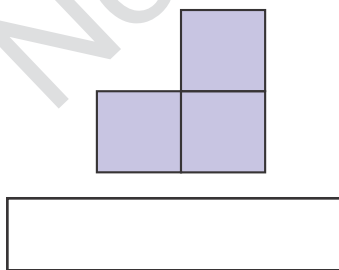
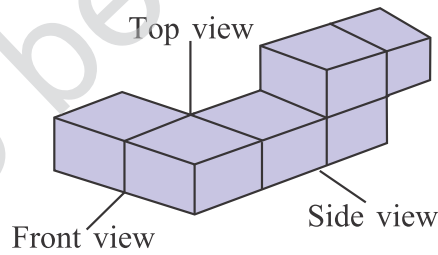


○ Two - dimensional structure of blocks are given. Identify and write whether it is top view, front view or side view.

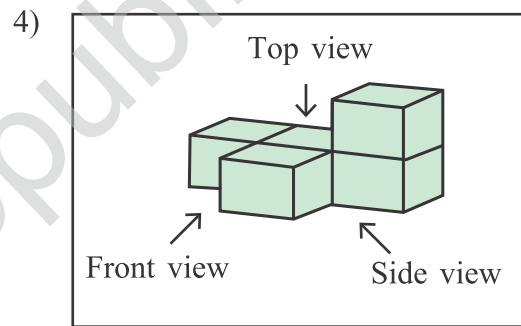
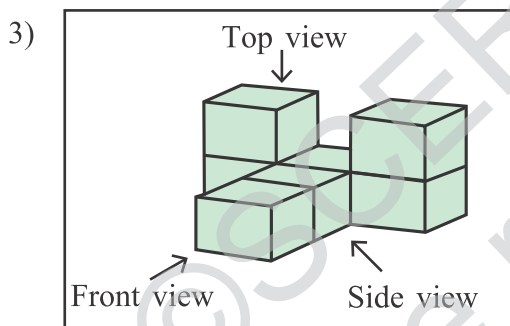
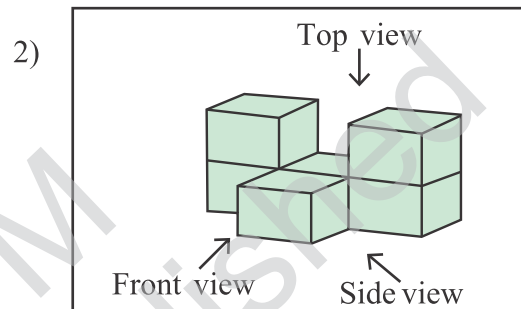
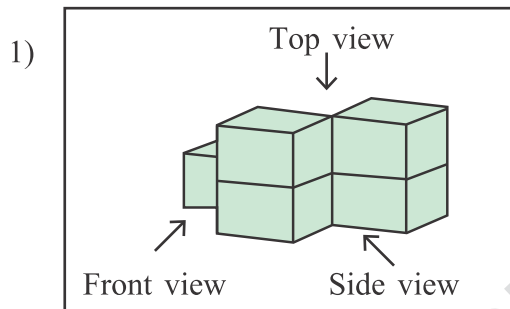
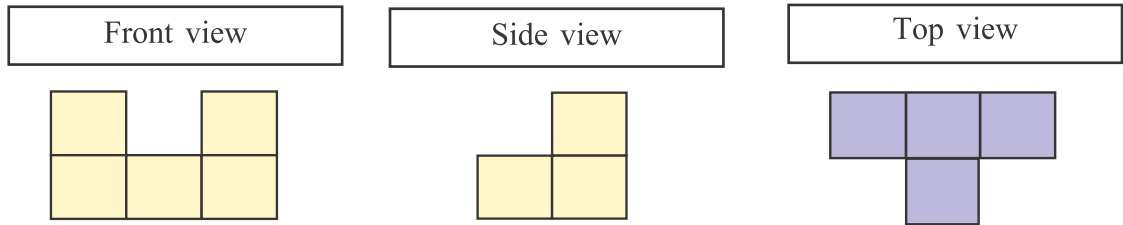
1)



2)



- From the given options select a block whose top, side and front view are as given below and write the option number in the box below.



- **Who am I? Draw my picture.**

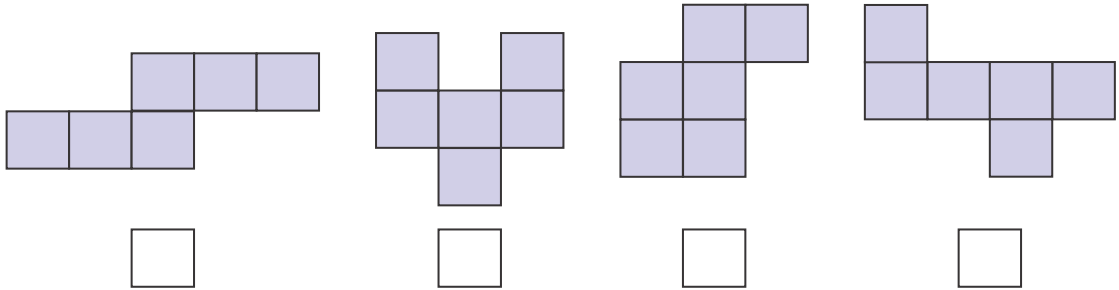
1) I am a three dimensional figure. My top, front and side view are same and my all three views as two - dimensional picture is a square. Who am I?
(circle/cuboid/cylinder/cube)

.....

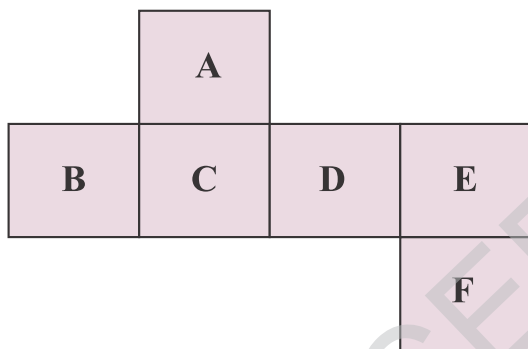
2) I am a three dimensional figure. My top, front and side view are same and my all three views as two dimensional picture is a rectangle. Who am I?
(circle/cuboid/cylinder/cube)

.....

- Put a tick (✓) below the net of a cube.



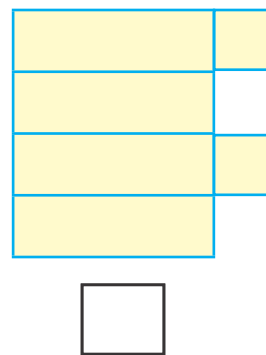
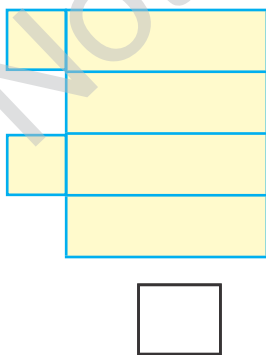
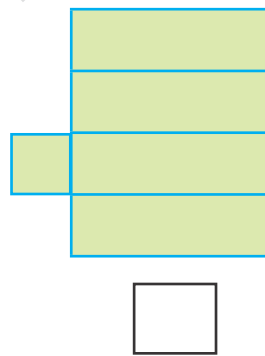
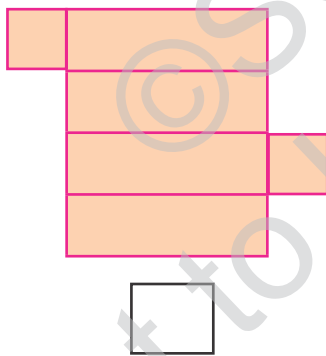
- If a dice is made out of the given net then –



1) Which letter will come on the opposite face of A

2) Which letter will come on the opposite face of C

- Put a (✓) below the net of a cuboid.



14. Drawing Pictograph

- Based on the information from the pictograph answer the questions given below.

(Scale : 1 = 50 students)

Modes of travelling of students from home to school	Number of students
by walking	
by bicycle	
by rickshaw	
by city Bus	

- 1) Total number of students given in the table?
- 2) How many more students come by bicycle than by rickshaw?
- 3) How many less students come by city bus than by walking?

- Following table shows information about shops in weekly market. Prepare a pictograph using the information.

	1	2	3	4	5
Type of shop	Grocery	Vegetables	Utensils	Sweets	Clothes
Number of shops	25	40	35	30	10

(Scale : 1..... = shops)

Sr. No.	Type of shop	Number of shops
1.	Grocery	
2.	Vegetables	
3.	Utensils	
4.	Sweets	
5.	Clothes	

- The following table shows information about the type of sport equipment available in the shop. Prepare a pictograph for the same.

	1	2	3	4	5	6
Type of sport equipment	Hockey	Cricket	Football	Table tennis	Valley ball	Shotput
Number of sets	81	45	27	72	18	63

(Scale : 1..... = set of equipment)

Type of sport equipment	Number of sets
Hockey	
Cricket	
Football	
Table tennis	
Volley ball	
Shotput	

- Following table shows information about different sport and the number of students playing it. Prepare a pictograph for the same.

	1	2	3	4
Sport	Lezim	Kho-Kho	Kabaddi	Langadi
Number of students	20	24	36	32

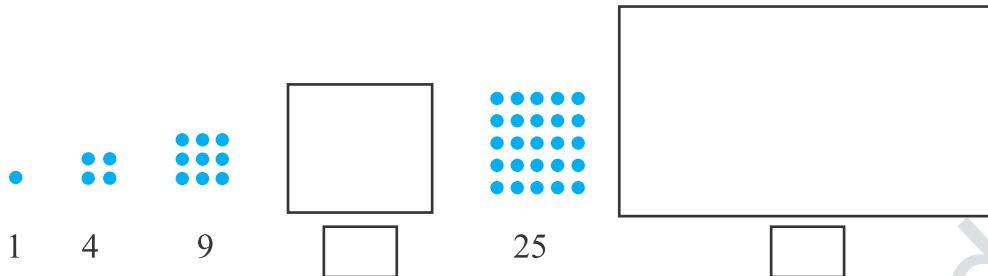
(Scale : 1 = students)

Type of shop	Number of students
Lezim	
Kho-Kho	
Kabaddi	
Langdi	



15. Identifying the Pattern

- Observe the pattern. Complete the pattern and write the number of dots in the box.



- Circle the squares of a number in the chart.

1	11	21	31	41	51	61	71	81	91
2	12	22	32	42	52	62	72	82	92
3	13	23	33	43	53	63	73	83	93
4	14	24	34	44	54	64	74	84	94
5	15	25	35	45	55	65	75	85	95
6	16	26	36	46	56	66	76	86	96
7	17	27	37	47	57	67	77	87	97
8	18	28	38	48	58	68	78	88	98
9	19	29	39	49	59	69	79	89	99
10	20	30	40	50	60	70	80	90	100

- How many spheres are needed to make the following arrangement?

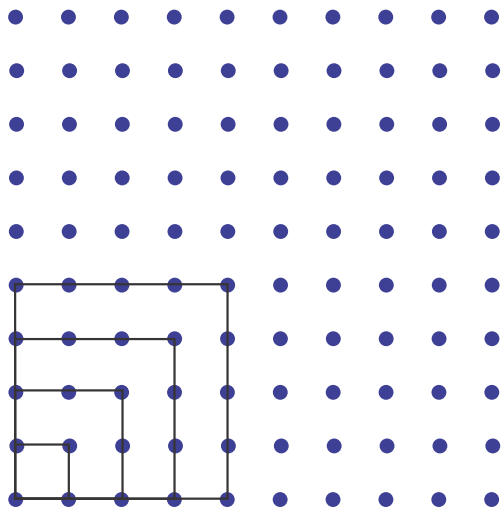


- Complete the following table.

Sum of the consecutive odd numbers	Square number
$1 + 3 =$	4
$1 + 3 + 5 =$	
$1 + 3 + 5 + 7 =$	
$1 + 3 + 5 + 7 + 9 =$	
$1 + 3 + 5 + 7 + 9 + 11 =$	



○ Draw the pattern to show square numbers.



○ Complete the following pattern.

$$1 \times 1 = 1$$

$$11 \times 11 = 121$$

$$111 \times 111 = 12321$$

$$1111 \times 1111 = \dots\dots\dots$$

$$11111 \times 11111 = \dots\dots\dots$$

- 1) Using grid from Math kit show the squares of numbers from 1 to 100.
- 2) Using rubber band on the geometric board show the squares of numbers from 1 to 100.

Cubes

○ Observe the dots and identify the pattern. Complete the pattern and write the next triangular number as shown.



$1 + 2 = 3$

$1 + 2 + 3 = 6$

$1 + 2 + 3 + 4 = 10$

$\quad\quad\quad$

a) $1 + 2 =$ 3

b) $1 + 2 + 3 =$

c) $1 + 2 + 3 + 4 =$

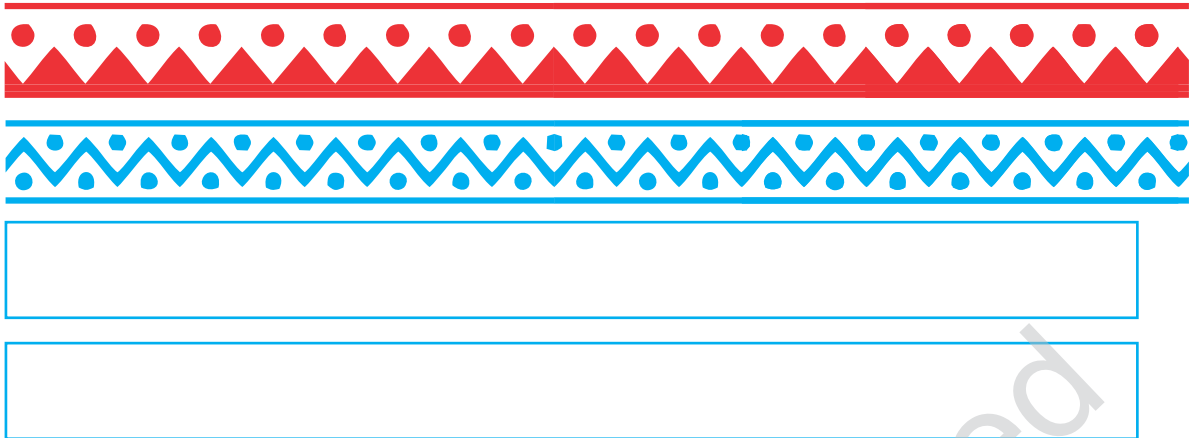
d) $1 + 2 + 3 + 4 + 5 =$

e) $1 + 2 + 3 + 4 + 5 + 6 =$

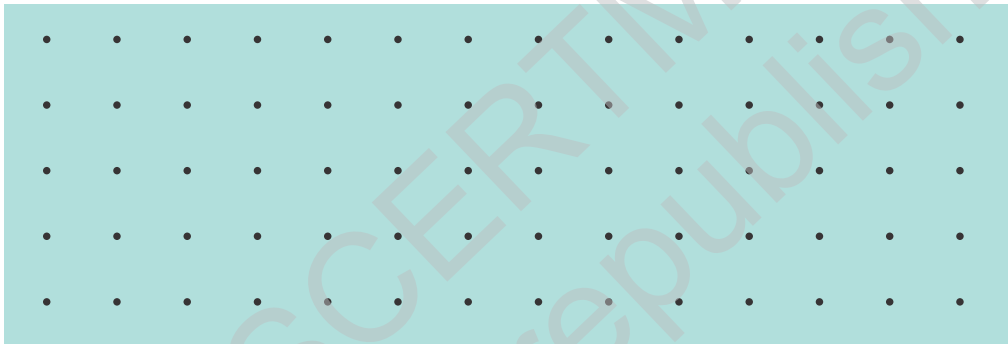
f) $1 + 2 + 3 + 4 + 5 + 6 + 7 =$



- Draw the patterns.



- Join the dots and make a pattern of your choice.

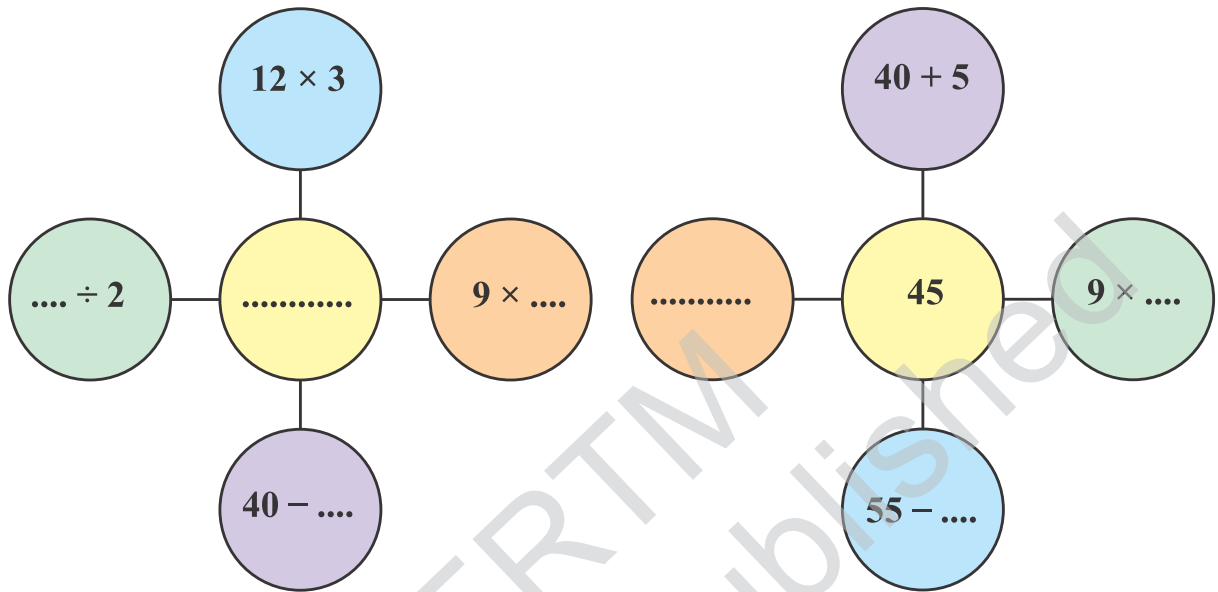


- Fill in the grid with numbers 1 to 9 such that it appears only once in a row and column.

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

16. Get ready for Algebra

- Fill in the blanks with correct number.



- Put the correct sign = or ≠ in the box.

1) $10 + 3 \boxed{=} 8 + 5$

2) $10 - 3 \boxed{\neq} 5 - 3$

3) $7 \times 8 \boxed{} 28 \times 2$

4) $12 + 4 \boxed{} 12 \times 4$

- Put the correct sign > or < in the box.

1) $12 \times 7 \boxed{} 28 \times 2$

2) $22 + 3 \boxed{} 5 \times 2$

3) $7 \times 8 \boxed{} 28 \times 1$

4) $12 \times 0 \boxed{} 12 + 0$

- Decide whether the Mathematical expression of the given statement are correct or incorrect. If it is incorrect rewrite it correctly.

1) I have some money with me. Out of that, I gave rupees 20 to Soham, so how much money is left with me? (Suppose I have m rupees)

→ $m - 20$

2) 1 box of laddoos has 6 laddoos in it. A few of the laddoos were eaten by Minal, so how many laddoos are left in the box? (Let Minal ate 'a' laddoos)

→ $a - 6$

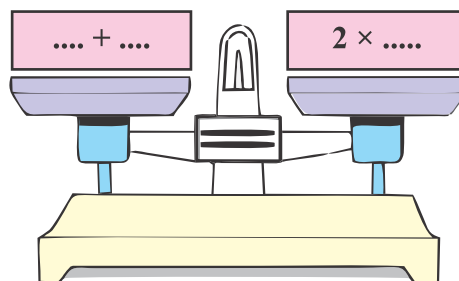
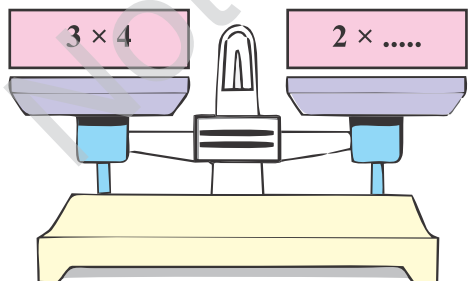
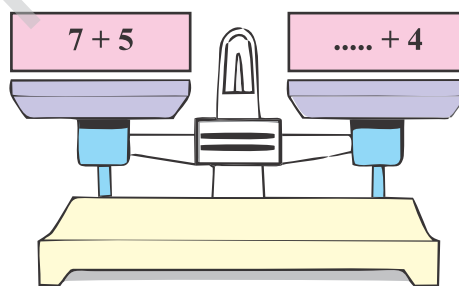
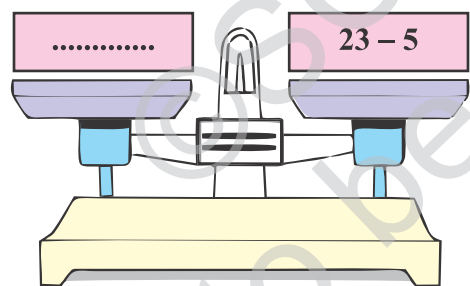
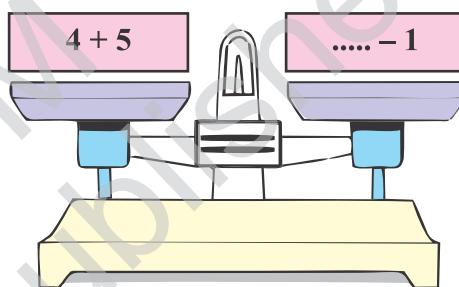
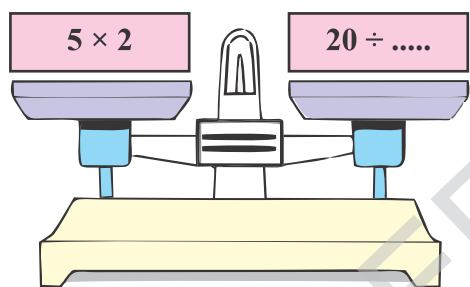
3) Nihar has 2 flowers. Ramesh gave him some more flowers. How many flowers does Nihar have now? (Let Ramesh gave him 'b' flowers)

→ $b - 2$









4) If Pari gave 10 rupees to Swara then how much money is left in her purse? (Let Pari has x rupees in her purse)

→ $10 - x$

○ Balance the weight by writing correct number in the blanks.





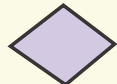









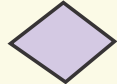

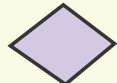


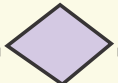



○ Let's try.

	+		= 300 g
	+		= 550 g
	+		= 450 g
	+		= <input type="text"/> g



○ Let's try.

	+		= 6		+		+		= ?		
	+		= 8		+		+		= ?		
	+		= 4		+		+		= ?		
	+		= 10		+		+		+		= ?



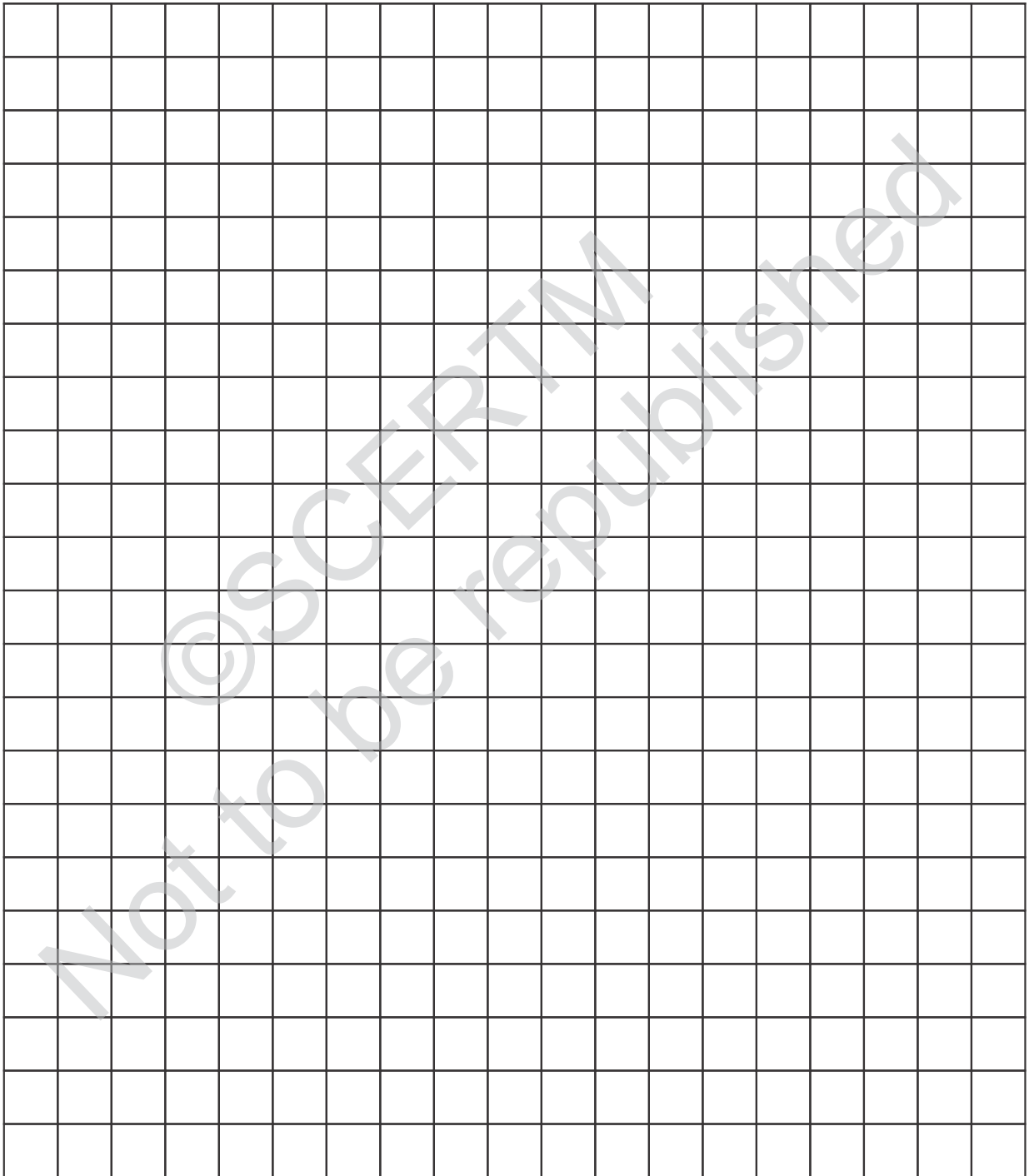
○ Draw a shape as per the given instructions and colour them.

1) A square having perimeter 16 units

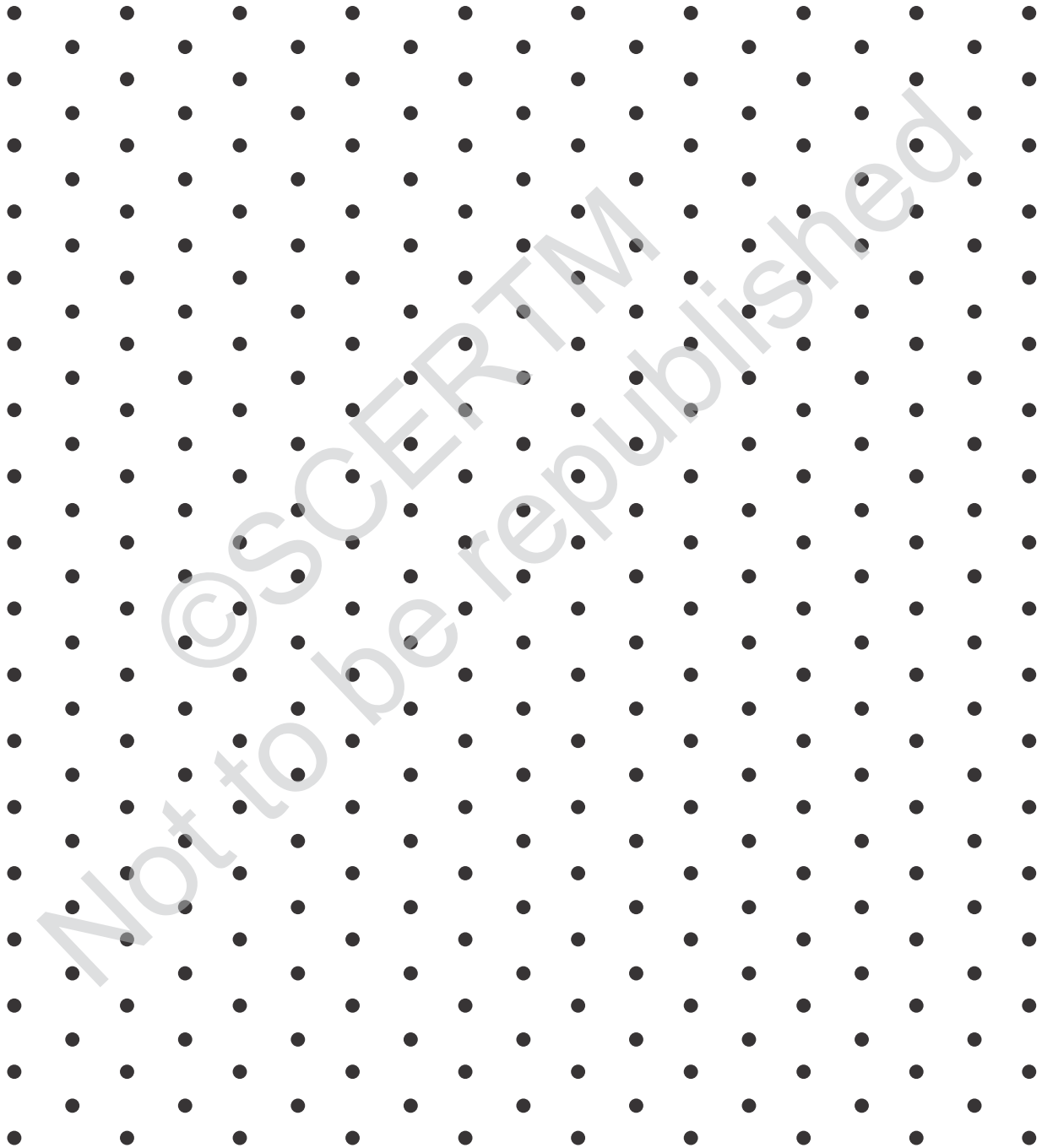
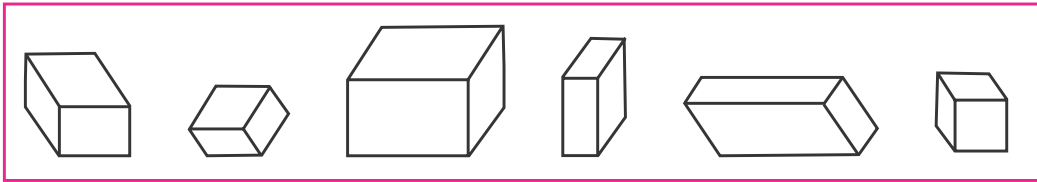
2) A rectangle having area of 16 square units

3) A square having area 9 square units

4) A rectangle having perimeter of 20 units and area of 16 square units.



- Draw the three – dimensional shapes using the dots given below.

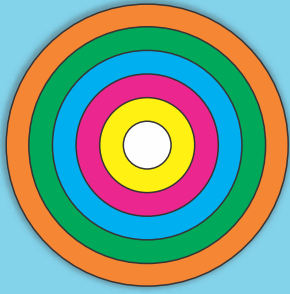


Credentials

Workbook : Standard - Five : Creative Participation in Development and Writing

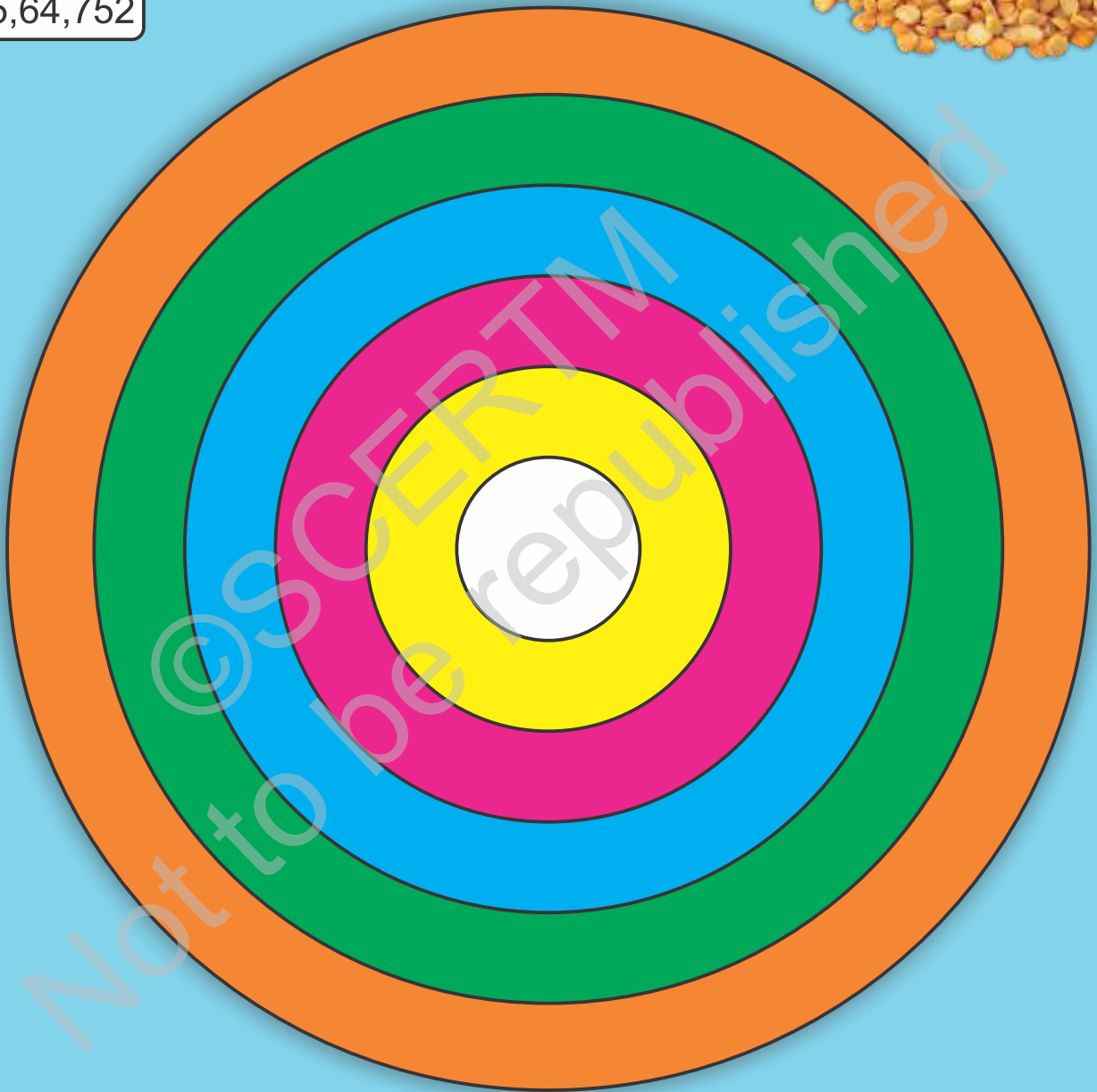
Sr. No.	Name	Designation	Office
1.	Vijay Gaikwad	Senior Lecturer	Dist. Institute of Educational Training (DIET), Phaltan, Satara
2.	Shivaji Thakur	Lecturer	Dist. Institute of Educational Training (DIET), Dhule
3.	Nilofer Patel	Lecturer	Dist. Institute of Educational Training (DIET), Bhandara
4.	Suvarna Deshpande	Asst. Teacher	New English School, Satara
5.	Pradip Palve	Asst. Teacher	Lakshmibai Bhaurao Patil Madhyamik Vidyalay, Dist. Ahmadnagar
6.	Ganesh Kolte	Retd. Head Master	Malkapur, Dist. Buldhana
7.	Subhash Marwade	Subject Asst.	Dist. Institute of Educational Training (DIET), Gondiya
8.	Basweshwar Kalyankasture	Subject Asst.	Dist. Institute of Educational Training (DIET), Ratnagiri
9.	Arun Bais	Subject Asst.	Dist. Institute of Educational Training (DIET), Hingoli
10.	Ganesh Jadhav	Subject Asst.	Dist. Institute of Educational Training (DIET), Aambajogai, Beed
11.	Uday Kedar	Subject Asst.	Dist. Institute of Educational Training (DIET), Nandurbar
12.	Vaishali Shewale	Subj. Resource Person	Cluster Resource Center, Aundh, PMC, Dist. Pune.
13.	Shaileshkumar Khetade	Asst. Teacher	Z. P. Primary School Parsodi, Tal. Pawani, Dist. Bhandara
14.	Tushar Dabade	Asst. Teacher	Karad Nagarparishad School No. 3, Dist. Satara
15.	Manisha Khaire	Asst. Teacher	Uran Nagarparishad School No. 1, Tal. Uran, Dist. Raigad
16.	Umesh Kotalwar	Asst. Teacher	Z. P. Primary School Prabhanwalli No. 7, Tal. Lanja, Dist. Ratnagiri
17.	Minakshi Sardeshmukh	Asst. Teacher	Z. P. Primary School Padali, Tal. Dist. Buldhana
18.	Yogesh Patil	Asst. Teacher	Z. P. Primary School Khokarhatti, Tal. Dist. Dhule
19.	Namdev Dhanawade	Asst. Teacher	Z. P. Primary School Mahate, Khu., Tal. Dist. Satara

Instructions for teachers/parents : 1) The objective of this workbook is to inculcate the habit of self-study in students and also to provide opportunity to excel in expected learning outcomes. 2) After learning the concepts and content given in the textbook, the students are expected to complete the activities given in this workbook. 3) Ample colourful pictures, figures and diagrams are used to make the workbook attractive. Mathematical puzzles /riddles are included to make it more enjoyable. 4) Activities in the workbook are designed as per the learning outcomes, hence every student sooner or later will achieve the expected learning outcomes. So teachers should focus on the process of learning rather than the product. 5) Teachers should plan as per the local situations so that every student can complete the activities in the said academic year. 6) At many places some sample activities are solved, so by observation student will solve remaining activities on their own. 7) If necessary, teacher /parent should give guidance to the students in person or in group. 8) Teaching of Mathematics should be accompanied by real life examples from the local surroundings so that the students can relate themselves and understand it in better way. Also encourage and motivate students to find such examples. 9) To evaluate the students' performance is not the only aim and objective of this workbook but also to get rid of 'Mathophobia' in students. Rather they should start loving Mathematics. 10) Teacher should always start with a positive thought and strong belief that 'Every child can learn Mathematics.' Encourage students to participate in everyday teaching-learning process with the help of this workbook.



Let's Play with Numbers

5,64,752



 Units

 Tens

 Hundreds

 Thousands

 Ten Thousands

 Lakhs