# KENDRIYA VIDYALAYA SANGATHAN,

# **REGIONAL OPFFICE MUMBAI**

BRIDGE COURSE FOR CLASS-VII
SESSION 2022-2023
SUBJECT- MATHEMATICS

PREPARED BY:

**Chief Patron** 

Mrs. Sona Seth

Deputy Commissioner, KVS R.O. Mumbai

**Patron** 

Shri S V Joglekar

Assistant Commissioner, KVS R.O. Mumbai

Coordinator

Mrs. Pramila Pal

Principal K V No. 2 Colaba

**Assistant Coordinator** 

Mr.Param Deo Yadav

Vice Principal K V No. 1 Devlali

### Members

Mr. Sanjay Soni, TGT- Maths, K V NO. 1 Devlali Mr. Hemant Kumar, TGT- Maths, K V NO. 1 Devlali Mrs.Vibha Parasar, TGT- Maths, K V NO. 1 Devlali

### **TOPIC: PROPERTIES OF WHOLE NUMBERS**

### **DAY -1**

# **CLASS- VII**

Date:	Time: 40 minutes
TLOs	To recall the knowledge of natural numbers, whole numbers and using this knowledge to introduce the concept of properties of whole numbers.  Students will be able to solve different problems by using properties of whole numbers ie. Closure property  Associative Property  Distributive Property  Commutative property
CONTENT	Properties of Whole Numbers -  *Closure property  *Commutativity of addition and multiplication  *Associativity of addition and multiplication  *Distributive Property of multiplication over addition
TLM	Graph paper activity for the explanation of distributive property of multiplication.  Take a graph paper of 6cm by 8 cm having squares of 1 cm x 1cm.  This is 6x8. Now cut this graph  This is 6x8. Now cut this graph  Now cut the sheet into two parts, 6x3 and 6x5. We can explain distributive property as: 6x8= 6x3+6x5= 6 x (3+5)

ASSESSMENT	<ol> <li>Find 12 X 45 by distributive property.</li> <li>Find the sum by suitable rearrangement:123+25+77</li> <li>Find the value of: 346 x 23 +346 x 77</li> </ol>
FEEDBACK	<ol> <li>What you have learnt in this topics?</li> <li>What are the interesting things that you like in this topic?</li> <li>What are the challenges in this topic?</li> </ol>

# **TOPIC:** Addition and subtraction of integers on a number line

### **DAY -2**

### **CLASS- VII**

Date:	Time: 40 minutes
TLOs	To recall the knowledge of whole numbers and integers. To recall that integers form the bigger collection of numbers which contain whole numbers and negative numbers.  Students will be able to add and subtract integers by using number lines.
CONTENT	Representation of positive and negative integers on number lines. Use of number line for addition and subtraction of integers.
TLM	Draw a number line. In the number line the positive numbers are to the right side and the negative numbers are to the left side.
	Thus, we have integers on the number line as shown in the below figure.
	Negative Integers Positive Integers -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7
	(i) In order to mark +2 on the number line, we move 2 points to the right side of the zero.
	-8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8
	(ii) In order to mark -6 on the number line, we move 6 points to the left side of the zero.
	-8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8

	To add -2 to 3 we will start from -2 and move 3 place on number line in positive direction ie in right side, so that we will reach on 1. Hence the answer is positive 1 or 1. Similarly we can explain subtraction of integers on number lines.
	Solve the following:
	12+13+2
ASSESSMENT	2. 12-14-5
	3. 10-12-3+12
	4. What you have learnt in this topics ?
	5. What are the interesting things that you like in this topic ?
FEEDBACK	6. What are the challenges in this topic ?

# **TOPIC:** Additive and Multiplicative identity of integers

# DAY -3

# CLASS- VII

TLOs	To recall that whole number when added with 0 remain same, therefore 0 is that additive identity of whole numbers.  When 1 is multiplied with any whole number then the number remain same, thus we can say that 1 is the multiplicative identity of whole number.  We will use this knowledge to introduce additive and multiplicative identity in integers also.
CONTENT	In general, $\mathbf{a} + 0 = 0 + \mathbf{a} = 0$ and $\mathbf{a} \times 1 = 1 \times \mathbf{a} = \mathbf{a}$ For any integer we can apply the above given concept.
TLM	Draw a table having 10 negative and 10 positive integers. Now in second column multiply these numbers with 1 and in third column add these numbers with 0, check the result. We will obtained that when we multiply integers with 1, the number remain same and also when we add with 0 then we will only get 0. Hence we can establish that 1 is the multiplicative identity and 0 is the additive identity of integers.

	Solve the following:
	1. 0 +25 =
ASSESSMENT	2.  30 + 0 =
	3. $30 \text{ x1} =$
	4. 12 x 1=
	5. $100 \text{ x1} =$
	6. 100 +0=
	7. What you have learnt in this topic?
	8. What are the interesting things that you like in this topic?
FEEDBACK	9. What are the challenges in this topic?

### **TOPIC: PRIME FACTORISATION**

### **DAY -4**

### **CLASS- VII**

TLOs	To recall the knowledge of prime factorization of whole numbers and student will be able to calculate HCF and LCM by using it.  Prime factorization will also be helpful to understand divisibility rules of whole numbers.
CONTENT	Prime factorization of whole numbers Calculation of HCF and LCM.

	Students will make a table for prime factorization, as(let the number is 120)
TLM	1x60=60
	2x30=60
	3x20=60
	4x15=60
	5x12=60
	6x10=60
	By using this table it is clear that the prime factors of 120 will be
	1,2,3,4,5,6,10,12,15,20,30,60.
	1. Find Prime factors of given numbers:
	A) 50
ASSESSMENT	B) 250
	C) 132
	D) 100
	10. What you have learnt in this topics?
	11. What are the interesting things that you like in this topic?
FEEDBACK	12. What are the challenges in this topic?

**TOPIC: BASIC GEOMETRICAL IDEAS** 

**DAY -5** 

**CLASS- VII** 

TLOs	To recall the understanding of basic geometrical ideas for line segment, point, line, ray, curve, polygon and then to leads to the concept of angles.
	Concept of line segment, lines, ray, point, curve and polygons.
CONTENT	
TLM	Draw Ray, line segment, lines, on paper. Draw curve and polygons on paper and name them accordingly.
	1. In given figure name the polygons:
ASSESSMENT	
	2. What is the difference between a ray and a line?
FEEDBACK	<ul><li>13. What you have understand in this topics?</li><li>14. What are the interesting things that you like in this topic?</li><li>15. What are the challenges in this topic?</li></ul>

# **DAY -6**

# TOPIC – PERIMETER OF RECTANGLE AND SQUARE

### **CLASS- VI**

Time: 40 m Date: • Understands concept of Perimeter **TLOs** • Skilled to derive formula for Perimeter of Rectangle and Square • Feels competent to find his own way and strategies for calculating perimeter • Gets ready to apply the concept for solving day to day based problems. PERIMETERE = LENGTH OF THE BOUNDRY OF ANY SHAPES **CONTENT BREADTH** LENGTH PERIMETER OF RECTANGLE = 2(LENGTH + BREADTH) PERIMETER OF SQUARE = 4 X LENGHT LENGTH Different shapes of cards **TLM** Different colors of pebbles Compass Box Flashcards Folding paper Thread ASSESSMENT 1. Find the perimeter of following figure 3cm В. 7 cm 5 CM

FEEDBACK	<ul> <li>What are the interesting things in this topic</li> <li>What are the challenges in this topic</li> <li>What do you learn from this topic</li> </ul>
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### MODULE - 7

# **DAY -7**

# TOPIC – AREA OF RECTANGLE AND SQUARE

### **CLASS- VI**

Date: Time: 40min

TLOs	<ul> <li>Understands concept of AREA</li> <li>Skilled to derive formula for area of Rectangle and Square</li> <li>Feels competent to find his own way and strategies for calculating area</li> <li>Gets ready to apply the concept for solving day to day based problems.</li> </ul>
CONTENT	BREADTH  LENGTH  AREWA OF RECTANGLE = (LENGTH X BREADTH)  AREA OF SQUARE = SIDE X SIDE  LENGTH
TLM	Different shapes of cards Different colors of pebbles Compass Box Flashcards Folding paper Thread

ASSESSMENT	2. Find the Area of following figure  3 CM  B.  6 CM
FEEDBACK	<ul> <li>What are the interesting things in this topic?</li> <li>What are the challenges in this topic?</li> <li>What did you learn from this topic?</li> </ul>

### MODULE-8

#### **DAY -8**

# TOPIC -PERIMTER AND AREA OF REGULAR and IRREGULAR SHAPES

**CLASS- VI** 

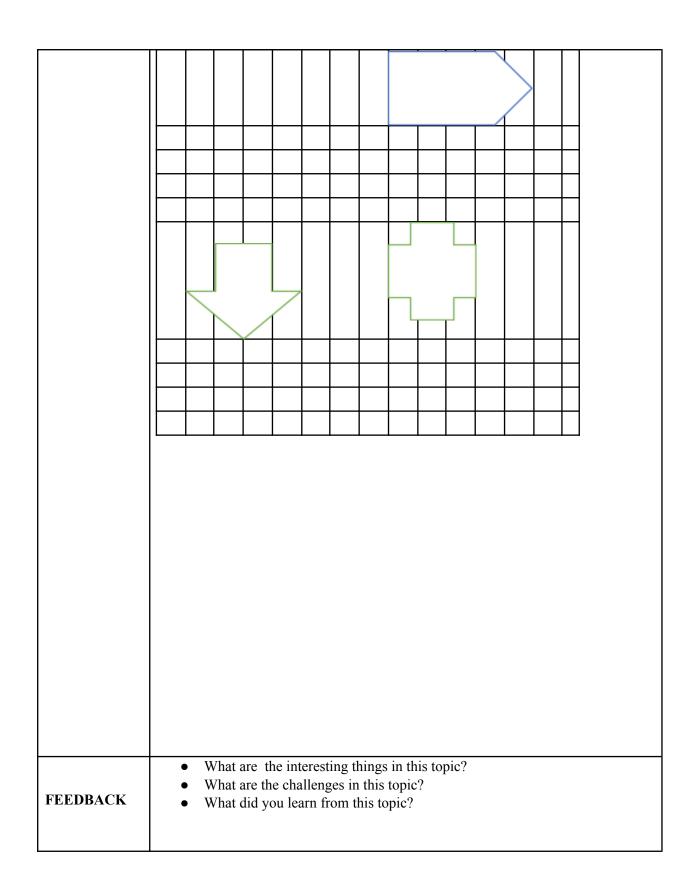
TLOS

- Understands concept of perimeter and area of regular shapes
- Feels competent to find his own way and strategies for calculating area and perimeter
- Gets ready to apply the concept for solving day to day-based problems.

- Understanding the concept of Perimeter
- Knowledge of terminology related to Mensuration, Units of measurement

- PERIMETER OF ANY SHAPES = SUM OF ALL SIDES OF SHAPES
- PERIMETER OF ANY SHAPES = SUM OF ALL SIDES OF SHAPES

	AREA OF CLOSESD FIGUR  = NO OF SQUAES		
TLM	Different shapes of cards Different colors of pebbles Compass Box Flashcards Folding paper Thread Graph Paper		
ASSESSMENT	Find the perimeter of each of the following shapes:  (a) A triangle of sides 3 cm, 4 cm and 5 cm.  (b) An equilateral triangle of side 9 cm.  (c) An isosceles triangle with equal sides 8 cm each and third side 6 cm  Find the areas of the following figures by counting square:		



### MODULE - 9

**DAY -9** 

### **TOPIC - ALGEBRA**

**CLASS- VI** 

Understands and expresses the unknown quantity in the form of variables, Equality and Inequality
 Expresses the word problems into algebraic form and solves at initial level

Date:

Uses variables to write different rules in the form of Formulae
 Forms word problems based on given expression in his own language.
 Develops his own strategy to solve and form different expressions.

**Time: 40** 

M

CONTENT	<ul> <li>Understanding Basic Concepts (Unknown Quantity- Abstract Form)</li> <li>Analyzing Skill</li> <li>Computational (Multiples based)</li> <li>Application (Unknown quantity applied to real life expression to Maths form)</li> <li>Correlation to other subjects and development of their basics as formulae</li> </ul>			
TLM	Dummy currency Simple Balance Number chart Flashcards Folding paper			
ASSESSMENT	<ul> <li>Are these equations true, false or open?</li> <li>11 - 3 = 5</li></ul>			
FEEDBACK	<ul> <li>What are the interesting things in this topic?</li> <li>What are the challenges in this topic?</li> <li>What did you learn from this topic?</li> </ul>			

### MODULE-10

### **DAY -10**

# **TOPIC - TRIANGLE**

### **CLASS- VI**

Date: Time: 40 M

TLOs	<ul> <li>Understands the basic concept of triangles</li> <li>Understands the different types of triangles</li> </ul>
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CONTENT	A triangle is a three-sided polygon. In fact, it is the polygon with the least number of sides Types of Triangles:  1. Equilateral Triangle  2. Isosceles Triangle	
	3. Scalene triangle	
	4. Right angle triangle	
TLM	Different shapes of cards Different colors of pebbles Compass Box Flashcards Folding paper	
ASSESSMENT	Draw three different triangles Write the identification of different types of triangles Draw a rough sketch of a triangle ABC. Mark a point P in its interior and a point Q in its exterior Identify three triangles in the figure  A  C	
FEEDBACK	<ul> <li>What are the interesting things in this topic?</li> <li>What are the challenges in this topic?</li> <li>What did you learn from this topic?</li> </ul>	

DAY -11
TOPIC – LINES AND ANGLES
CLASS- VI

Date: Time: 40 M

TLOs	<ul> <li>Understands the basic concept of lines and angles</li> <li>Understands the line and line segment and different types of angles</li> </ul>
	LINE . AS
CONTENT	LINE : $\overline{AB}$ A  B
	INTERSECTING LINES
	PARALLEL LINES
	ANGLES
	1.ACUTE ANGLE =0° TO 90°
	2.OBTUSE ANGLE =MORE THAN 90° AND LESS THEN 180°
	3. STRAIGHT ANGLE =180°
	4, RIGHT ANGLE= 90°
TLM	Different shapes of cards Compass Box
	Flashcards
	Folding paper
	. Draw three different pair of lines
ASSESSMENT	. Write the identification of different types of angles
	. Identify three different angle and write their name from the figure
	A
	B D C
	What are the interesting things in this topic?
FEEDBACK	<ul><li>What are the challenges in this topic?</li><li>What did you learn from this topic?</li></ul>
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# CLASS- VII

Date: 14/03/2022 Time: 40 minutes

TLOs	*By recalling the knowledge of construction learnt in class VI make a bridge module for the teaching of topic 'PRACTICAL GEOMETRY' in class VII.  *To able the students to draw parallel lines.  * To able the students to construct triangles  *To develop Decision Making Creative thinking Drawing Skill in students
CONTENT	(i) TO DRAW A LINE PARALLEL TO A GIVEN LINE THROUGH A GIVEN POINT NOT ON THE LINE (ii) To draw a triangle whose three sides are given.
	(i) Demonstrate the construction on the board.
TLM	1.Draw the given line AB and mark the point P not on AB.  2. Mark a point X on AB and join PX.  3. With a suitable radius draw an arc which intersect AB and PX at C and D respectively.  4. With the same radius draw an arc with P as centre which intersects PX at E.  5. Measure CD by using compasses and cut the arc from E at F.  6. Join PF which is the required line.
	(ii) Demonstrate the construction on the board.  B C 1. Draw the side BC with the given length 2. With B as centre and BA as radius draw an arc and with C as centre and CA as radius draw another arc which intersect the previous arc at A. 3. Join AB and AC such that ABC is the required triangle.

ASSESSMENT	Q1 Draw a line L. Draw a perpendicular through any point P on it. Take a point Q on perpendicular 5cm away from P. Draw a line through Q parallel to L. Q2. Construct triangle PQR whose sides are PQ= 4cm, QR=3.5cm &PR=4cm.
FEEDBACK	Q.1 What have I learnt? Q.2 what I found challenging? Q.3 what I found interesting?

DAY -13 CLASS- VII

Date: 14/03/2022 Time: 40

•	4
min	utes

TLOs	*By recalling the knowledge of DATA learnt in class VI make a bridge module for the teaching of topic 'DATA HANDLING' in class VII.  *To able the students Interpretation of data  * To able the students to To draw Bar graph  *To develop Analytical skill Computational Skill.
CONTENT	(i) To draw bar graph and interpretation of the data represented on it. (ii) To find mean and mode of given data.

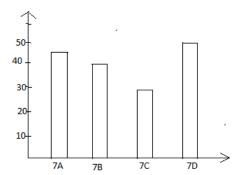
**TLM** 

### (i) BAR GRAPH

A bar graph is a representation of numbers using bars of uniform widths. Double bar graphs help to compare two collections of data at a glance.

### Explain how to draw the bar graph by demonstrating a sample

CLASS	NO. OF
	STUDENTS
7A	45
7B	40
7C	30
7D	50



(ii) Mean: It is found by adding all the values of the observations and dividing it by the total number of observations.

 $Mean = \frac{Sum \ of \ all \ the \ observations}{Total \ number \ of \ observations}$ 

*Mode*: The mode is the most frequently occurring observations

Q.1. The scores in Mathematics test of 15 students is a s follows:

ASSESSMENT	Find the mean an	•	
	CLASS	Marks	]
	7A	45	1
	7B	40	
	7C	36	]
	7D	42	
FEEDBACK	Q.1 What have I le Q.2 what I found c Q.3 what I found in	hallenging?	

### MODULE-14

**DAY -14** 

CLASS- VII

TLOs	*To increase Ability to compute, Problem solving *To develop Creative Thinking.	
CONTENT	(i) To enable the students to understand and extends the number family from natural number to fractions through integers and whole numbers. (ii) Understand the rational numbers and their difference from fractions. (iii) Rational Numbers between two Rational Numbers.	
TLM	(i) Explain the method of representation of fractions on the number line by drawing it.	
	(ii) Make the children understand what is a rational number- the number which can be	
	expressed in the form of $\frac{p}{q}$ , where p and q are integers. In rational numbers negatives are	
	also there.	
	Eg: $\frac{1}{2}$ , $\frac{-3}{4}$ , $\frac{5}{1}$ , $\frac{5}{-7}$ , $\frac{-3}{1}$ etc are rational numbers.	
	Hence all integers are rational numbers with the denominator 1	
	(iii) Explain how to insert a given number of rational numbers between a given pair of rational numbers by making the denominators the same.	

	$\frac{\frac{-1}{2} \ and \ \frac{1}{3}}{\frac{-1}{3} = \frac{10}{30} \ \text{Then} \frac{-14}{30}, \frac{-13}{30}, \frac{-12}{30} \text{ etc. are rational numbers between} \ \frac{-1}{2} \ and \ \frac{1}{3}.$
	Q.1. Find Sum
ASSESSMENT	$-5\frac{7}{5}+3\frac{4}{3}$
	Q.2 Find
	$\frac{5}{64} - (-\frac{7}{32})$
	Q.3 find any two rational numbers between given rational number $\frac{1}{2} \text{ and } \frac{1}{3}$
FEEDBACK	Q.1 What have I learnt? Q.2 what I found challenging? Q.3 what I found interesting?

### **DAY -15**

### CLASS- VII

TLOs	*By recalling the knowledge of FRACTION learnt in class VI make a bridge module for the teaching of topic 'FRACTION' in class VII.  *To increase Ability to compute, Problem solving  *To develop Creative Thinking.
CONTENT	<ul> <li>(i) Applies the basic operations on the Fractions to find sum and difference of fractions and enhances computational skill</li> <li>(ii) Multiplication of a Fraction by a Whole Number         <ul> <li>* Fraction as an operator 'of'</li> <li>*Multiplication of a Fraction by a Fraction</li> <li>*Value of the Products</li> </ul> </li> </ul>

	(i) houseing LCNA add an authors to the given for attent							
TLM	(i) by using LCM, add or subtract the given fraction $\frac{5}{6} + \frac{2}{5} = \frac{25}{30} + \frac{12}{30} = \frac{25+12}{30} = \frac{37}{30}$							
	(ii) To multiply a mixed fraction to a whole number, first convert the							
	mixed fraction to an improper fraction and then multiply therefore $3 \times 2 \frac{5}{7} = 3 \frac{19}{7} = \frac{57}{7} = 8 \frac{1}{2}$ $\Box$ Find $\frac{1}{2}$ of (i) 24 (ii) 46							
	$\frac{1}{2}*24 = 12$ and $\frac{1}{2}*46 = 23$							
	$\square  \text{Multiply the given faction}  \frac{5}{7} \times \frac{12}{7} = \frac{60}{7}$							
	Q.1.Add and shade the total parts in the answer picture. Write the addition sentence.							
ASSESSMENT	(a)							
	(b)							
	_ + _ =							
	_ + <del>                                    </del>							
	(c)							
	— + <del>— —</del> — = — —							
	_+ + =							
	Q.2. Michael finished colouring a picture in 7/12 hour. Vaibhav finished colouring the same picture in 3/4 hour. Who worked longer? By what fraction was it longer?							
	Q.1 What have I learnt?							
FEEDBACK	Q.2 what I found challenging? Q.3 what I found interesting?							
LLDBROIT	Q.5 I found interesting.							

**DAY -16** 

**CLASS- VII** 

TLOs	*By recalling the knowledge of FACTORS learnt in class VI make a bridge module for the teaching of topic 'EXPONENT AND POWERS' in class VII.  *To able the students to understand the application of factors  *To develop Analytical skill Computational Skill.
CONTENT	(i) Prime factorisation of numbers. (ii) Meaning of Exponents and Power & Expressing large numbers in the form of exponents.
TLM	(i) prime factorisation of 256 is $2x2x2x2x2x2x2x2x2$ (ii) exponential form for $8 \times 8 \times 8 \times 8$ taking base as 2 is $2^{12}$ . Where 2 is base and 12 is known as exponents.  (a) $a^m \times a^n = a^{m+n}$ (b) $a^{m+}a^n = a^{m-n}$ , $m > n$ (c) $(a^m)^n = a^{mn}$ (d) $a^m \times b^m = (ab)^m$ (e) $a^m \div b^n = (a \div b)^m$ (f) $a^0 = 1$ (g) $(-1)^{\text{even number}} = 1$ $(-1)^{\text{odd number}} = -1$ Activity 1 - What is $a^0$ ? Observe the following pattern: $2^6 = 64$ $2^5 = 32$ $2^4 = 16$ $2^3 = 8$ $2^2 = ?$ $2^1 = ?$ $2^0 = ?$
ASSESSMENT	Q.1. Find five more such examples, where a number is expressed in exponential form. Also identify the base and the exponent in each case. Q.2. Work out $(1)^5$ , $(-1)^3$ , $(-1)^4$ , $(-10)^3$ , $(-5)^4$ . Q.3. Expand $a^3 b^2$ , $a^2 b^3$ , $b^2 a^3$ , $b^3 a^2$ . Are they all same?
FEEDBACK	Q.1 What have I learnt? Q.2 what I found challenging? Q.3 what I found interesting?

### **DAY -17**

# **CLASS - VII**

			C	LASS	- V 11				
Date:							7	Γime: 40 minutes	
TLOs	*By recalling the knowledge of DECIMALS learnt in class VI make a bridge module for the teaching of topic 'DECIMALS' in class VII.  *To increase Ability to compute, Problem solving  *To develop Creative Thinking.  *To able the students to understand about Decimals  * To develop skill to Compare decimal numbers  *To able the students about the concept of addition and subtraction of decimals								
CONTENT	(i) fractions as (ii) Multiplicat (iii) Division o	tion o	f dec						
TLM	(i) <b>Fractions as decimals</b> We have already seen how a fraction with denominator 10 can be represented using decimals.						10 can be represented		
	Let us now t		find	Ldeci	mal repre	sentation	of 11/5		
		•			_			decimal notation)	
						5×2 — 10	– 2. 2 ( III	decimal notation)	
	(ii) multiplicat					2 ,	7 _ 14	_ 0 14	
							$\frac{7}{10} = \frac{14}{100}$		
	(iii) <b>To unders</b> 456.25÷				divide ded	imal numb	ers by 10 or	· 100 or 1000	
	Q.1 convert 1c			3023					
	Q2. Convert 1g								
ASSESSMENT						How much distance will it			
	cover in one lit		•						
	Q.4. complete	Q.4. complete the following table:							
	Hundreds	Tens	Ones		Hundredths	Thousandths	Number		
	(100)	(10)	(1)	$\left(\frac{1}{10}\right)$	$\left(\frac{1}{100}\right)$	$\left(\frac{1}{1000}\right)$			
	2	5	3	1	4	7	253.147		
	6	2	9	3	2	1			
	0	4	3	1 2	9 5	2	514.251		
	2	1	6	5	1	2	514.251 236.512		
		2		5		3	724.503		
	6		4		2		614.326		
	0	1	0	5	3	0			
	Q.1 What have								
EEEDD A CV	Q.2 what I fou								
FEEDBACK	Q.3 what I fou	nd in	terest	ıngʻ?					

### **DAY -18**

### **CLASS- VII**

Date: Time: 40 min

Date:	Time: 40 min
TLOs	*By recalling the knowledge of symmetry learnt in class VI make a bridge module for the teaching of topic 'SYMMETRY' in class VII.  *To able the students to understand about symmetrical objects in surrounding and nature.  * To develop skill to draw symmetrical shapes and line of symmetry.  *To able the student Rotational symmetry.
CONTENT	Introduction of symmetry by using objects available in the surroundings.  To find line of symmetry & rotational symmetry in different shapes.
TLM	Activity-1 Draw two identical Rectangles, one-ABCD on a piece of paper and the other on a transparent sheet. Mark the points of intersection of their diagonals, O Place the Rectangles as shown in image-Stick a pin into the shapes at the point O.  Now turn the transparent shape in the clockwise direction.  How many times do the shapes coincide in one full round?  What is the order of rotational symmetry?
	Activity-2 Repeat this activity for Rhombus as shown in image below-

ASSESSMENT	Q1 Draw five symmetrical objects from your surroundings and draw their line of symmetry. Q2. Name the quadrilaterals which have both line and rotational symmetry of order more than one. Q3. Draw a triangle with both line and rotational symmetries of order more than 1. Q4 Name four capital English Alphabets having 2 line of symmetry each.
FEEDBACK	Q.1 What have I learnt? Q.2 what I found challenging? Q.3 what I found interesting

### Assessment Based on all 18 modules

Max Marks:40 Time: 90 Min

Q No:1- Draw five symmetrical objects from your surroundings and draw their line of symmetry.

Q No:2- A vehicle covers a distance of 43.2 km in 2.4 litres of petrol. How much distance will it cover in one litre of petrol?

Q NO:3- The scores in Mathematics test of 15 students is a s follows:

19,25,23,20,9,20,15,10,5,16,25,20,24,12,20. Find the mean and mode of the data.

Q NO:4- Find the sum by suitable rearrangement:123+25+77

Q NO:5- Find Prime factors of given numbers: 50 ,250 and 132

Q NO:5-. Write the identification of different types of angles

Q NO:7- Q1 Draw a line L. Draw a perpendicular through any point P on it. Take a point Q on

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Q NO:8- What is the difference between a ray and a line?
perpendicular 5cm away from P. Draw a line through Q parallel to L.