

<u>PRE-CONTENT/CONTENT/ POST-CONTENT</u>	<u>LEARNING OUTCOMES/OBJECTIVES</u>	
	<u>GENERAL</u>	<u>SPECIFIC</u>
<u>PRE-CONTENT</u> ✓ Perimeter <u>CONTENT</u> ✓ Area ✓ Area of Irregular figures <u>POST-CONTENT</u> ✓ Application in real world	Students will be able to: ✓ relate and visualize the concept. ✓ recognize area as the surface bounded in the interior of any closed figure. ✓ compute the area of any irregular figure by the method of counting through squares. ✓ understand the concept ✓ create new patterns using the concept of are of irregular figures	Students will be able to: ✓ evolve the meaning of perimeter as the sum of the boundaries of any closed figure ✓ extrapolate the meaning of area ✓ distinguish between units used for measuring perimeter and area. ✓ apply the concept to find the area of irregular figures. ✓ visualize the real life situations where area of irregular figures can be calculated.

Home Work /Assignment :

- Problems from Math Magic.

AND PROGRESS**MONTH : JANUARY** 2/6**CLASS : V**

<u>TEACHER'S ACTIVITY</u>	<u>STUDENT'S ACTIVITY</u>	<u>TEACHER'S OBSERVATION AND REMEDIAL</u>
Teacher will : help the students to recall the concept of Perimeter through an exercise using dot paper given in NCERT book . show an audio visual clipping to explain students the meaning of area through examples of some real life situations <u>ANNEXURE 3</u> conduct an activity to demonstrate how to compute the area of any irregular figure. take up few questions from the NCERT book to assimilate the concept of computing area of irregular figures by counting squares. ask the students to make their own tilling patterns using the activity given in the NCERT book on Pg – 47,48 &49.	Students will : recall Perimeter by calculating through hands on experience. observe and learn how to distinguish between perimeter and area. <u>ANNEXURE 3</u> participate in the activity , understand and apply the concept of area in finding the area of any object solve exercise in the textbook given on Pg - 39 to 45. create their own beautiful tilling patterns and paste them in their notebook.	Teacher will write his/her observations after the completion of the topic/s.

Teaching Aids: Dot Paper, Graph Paper , Scale ,A4 size sheet, ruler, pencil, eraser, Smart Board, Internet etc.

Methodology/Innovative Methods: Deductive Method, Activity Method , Digital Technology and learning by doing.

Interdisciplinary Links: Relate to real life situations , strengthen their observation skills.

H.O.D.**Coordinator****Head Mistress****Principal**

ANNEXURE 3 HOW MANY SQUARES?

SUBJECT	MATHEMATICS
CLASS	V
CHAPTER/UNIT	HOW MANY SQUARES?
TOPIC	AREA OF IRREGULAR FIGURES
TIME	20 MINUTES
NATURE OF ACTIVITY	INDIVIDUAL

What will I learn(Learning Outcome)?

The students will be able to compute the area of irregular figures by counting through squares.

Skills: Remembering, Analyzing, Critical thinking, Integrating Art.

What we have to do?

To find the area of irregular figures.

What do I require?

Graph paper/Squared paper, 3 irregular shaped object, pencil, eraser, colours etc..

What do I need to know?

Distinguish between regular and irregular figures and units used to measure area.

➤ **Teacher's Activity :**

The teacher will discuss the difference between Regular and Irregular figures and the units used for measuring area.

How will I proceed?

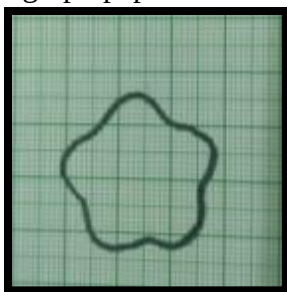
➤ **Student's Activity :**

1)Take a graph paper and any irregular shape object , say , star shaped eraser.(refer Fig. 1)



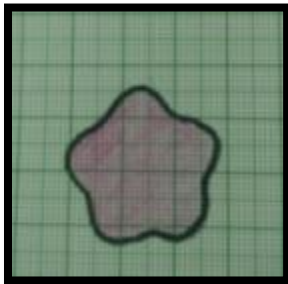
(Fig.1)

2) Keep the star eraser on your graph paper and trace its boundary.(refer Fig.2)



(Fig. 2)

3) After tracing colour the interior of the figure traced. (refer Fig.3)



(Fig.3)

4) Now, count the number of squares which are completely shaded, more than half shaded, less than half shaded and exactly half shaded and fill in the observation table.

5) All those squares which are completely shaded and more than half shaded, their area will be counted as 1 sq. unit, whereas the squares which are less than half shaded will be ignored.

6) All those squares which are exactly half filled their area will be considered as $\frac{1}{2}$ sq. unit or 0.5 sq. unit.

7) Add them all to get the area of irregular figure.

8) Repeat this activity for two more irregular shaped objects.

What have I observed?

<u>S.No.</u>	<u>Number of squares</u>			
	<u>Completely filled</u>	<u>Half filled</u>	<u>More than half filled</u>	<u>Total area in square units</u>
Object 1				
Object 2				
Object 3				

What have I learnt? :

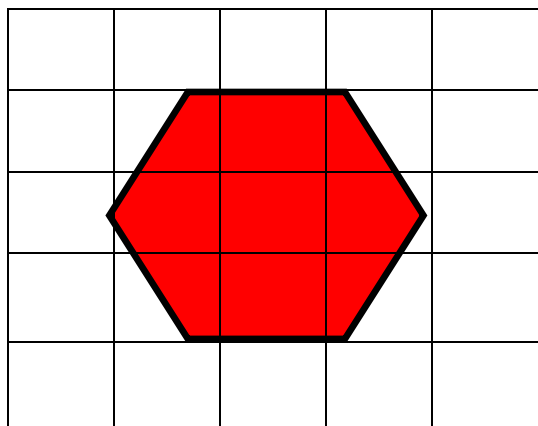
To compute the area of any irregular figure through counting squares on a graph paper or squared paper.

What am I curious to know?

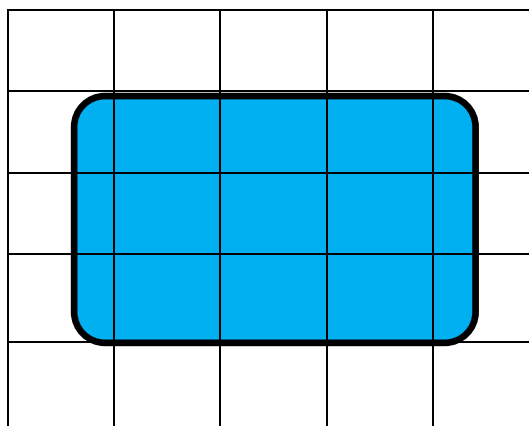
What could be the area of my traced hand in square units?

Let me evaluate myself

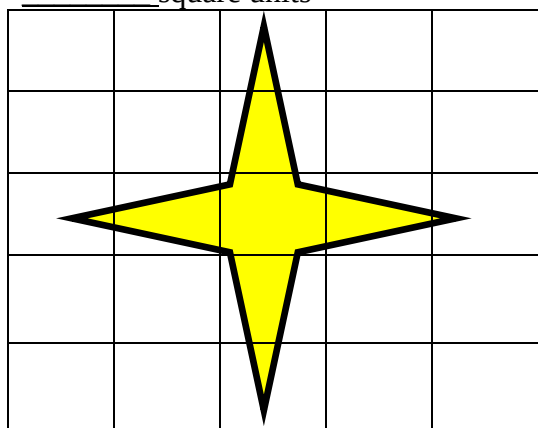
Q1) Calculate the area of the following by the method of counting through squares.



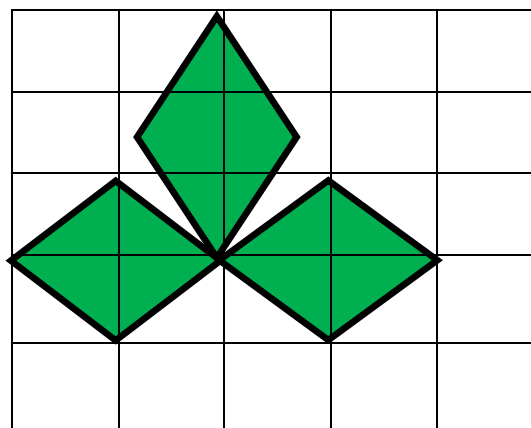
_____ square units



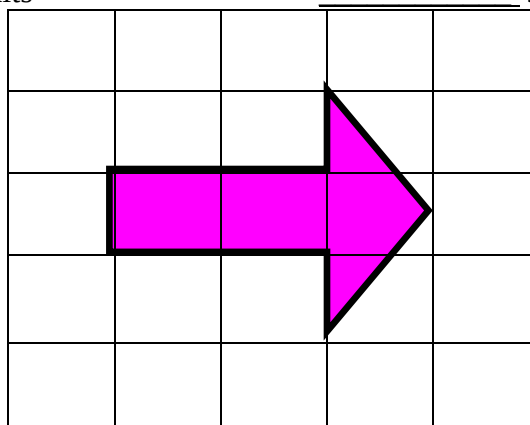
_____ square units



_____ square units



_____ square units



_____ square units

Q2) Trace a leaf in the space given below and find its area by counting squares.

