

SNBP International & Senior Secondary School, Chikhali, Pune. Affiliation No. 1130703 Academic session 2024-25 CHAPTER 15 SHAPES AND PATTERNS NOTES (PT3)

Class: III

SUBJECT : Maths
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Shapes and Patterns



Look at the picture of the Rini's robot. Fill in the blanks/boxes.

- The hat of the robot is made up of <u>triangle</u>, <u>circle</u>, and <u>square</u>. (rectangle, circle, star, triangles, squares, and oval)
- b The face of the robot has 5 circles, 2 triangles, 2 rectangles, and 2 square.
- The hands of the robot are made up of <u>circle</u>, <u>square</u>, and <u>rectangle</u>.
- The legs of the robot are made up of <u>rectangle</u>.
- The stomach of the robot is made up of 1 <u>square</u> and 1 <u>circle</u>



Use	'Shapes	8	Colour	Kit	to	answer	the	fol	lowing	q	uestions
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- In a rectangle, the _____2 sides are equal.
- <u>Pentagon</u> and <u>Hexagon</u> are two polygons that have more than 4 sides.
- <u>Cube</u> and <u>Cuboid</u> have 6 faces.
- Tick (\checkmark) the shapes that have one curved face.

Sphere

Cylinder

Cone

Cube

е Tick (✓) the shapes that have 8 vertices.

Cube

Square

Hexagon

Cuboid



VPictorial Stage

Observe the 2D shapes, and name them. Count and write the number of sides and vertices.



Number of sides 4 Number of vertices 4



Hexagon Number of sides 6

Number of vertices 6



Pentagon

Number of sides 5 Number of vertices 5

- Identify the shapes and fill in the blanks.
- The <u>cylinder</u> has <u>1</u> curved face(s) 2 flat face(s).



The <u>cone</u> has 1 curved face(s) 1 flat face(s).



The <u>sphere</u> has <u>1</u> curved face(s) 0 flat face(s).



DAbstract Stage

Identify the shapes. Count and state how many of each type are there.



Triangles Quadrilaterals **Pentagons** Hexagons 3 2

Complete the table.

Object	Name of the shape	Number of faces	Number of edges
	cylinder	2 flat and 1 curved	2
E	cube	6 flat	12





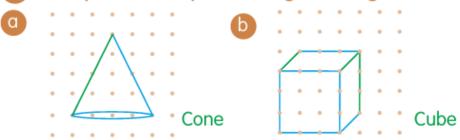
Hintometer: Number of vertices is equal to the number of sides for all 2D shapes.

Use 'Dot Grid/Geo Board' to complete the table. of sides for all 2D shapes.

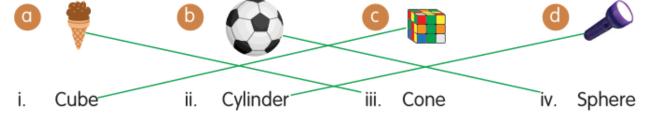
Shape	Number of sides	Number of vertices
Quadrilateral	4	4
Triangle	3	3
Pentagon	5	5
Hexagon	6	6

Pictorial Stage

1 Complete 3D shapes on the given dot grids, and name them.



2 Match the objects with the shapes they represent.



NAbstract Stage







2 Trace the 3D shapes then draw them on the given isometric dot grids.

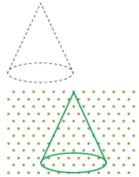


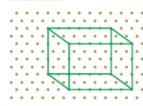








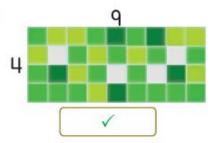




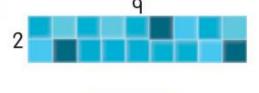


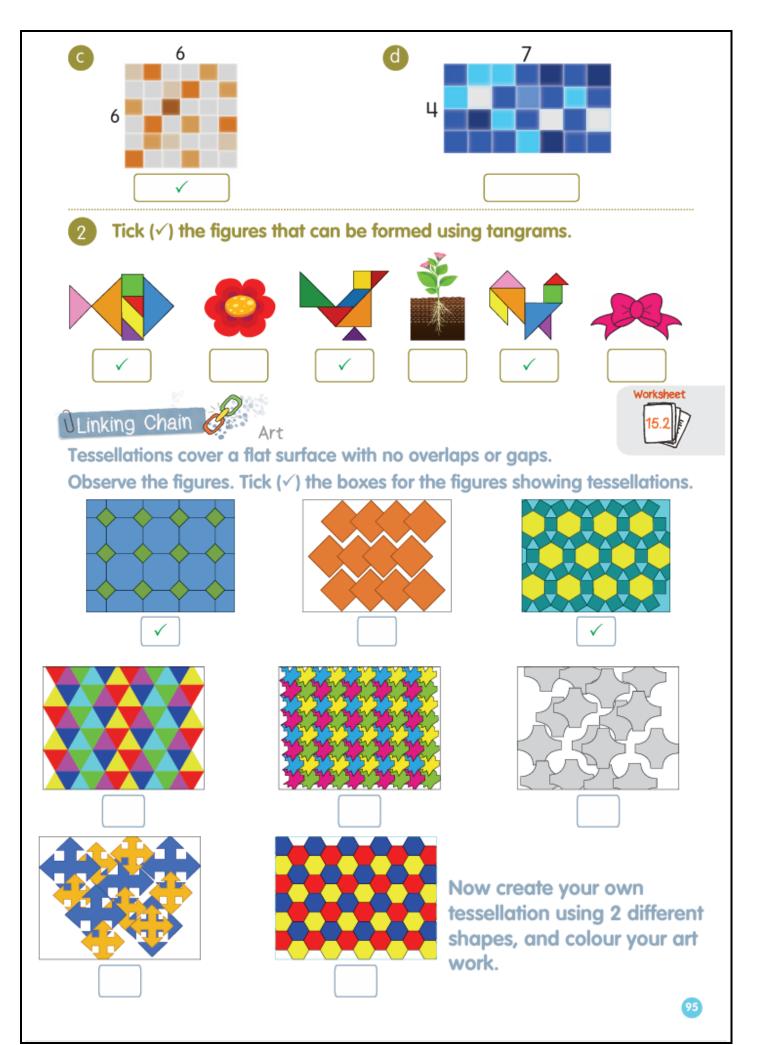
1 Check the tiled wall that has an area of 36.

a



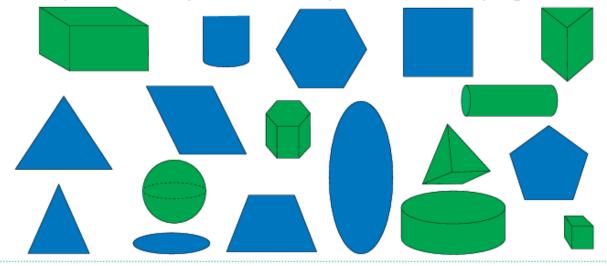
b



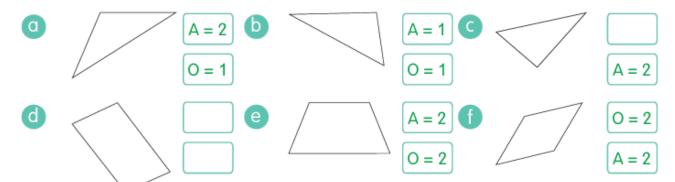


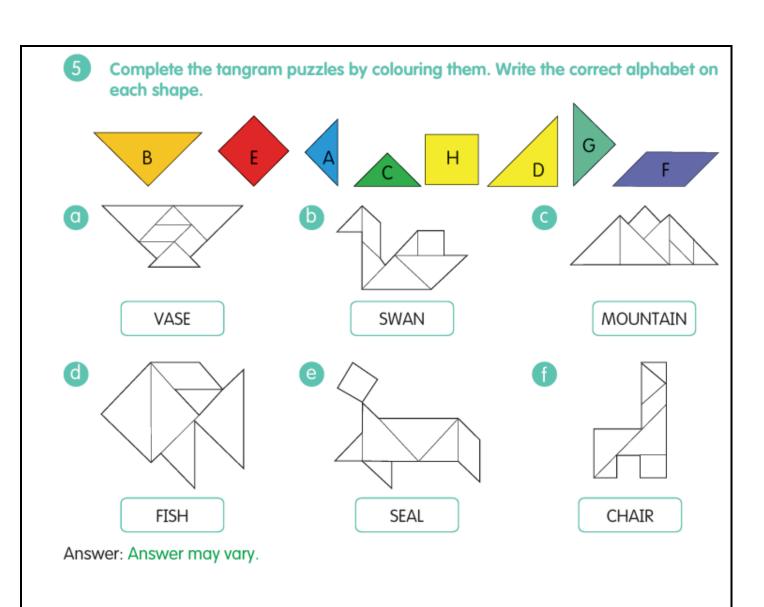
UBlooming Questions 🦠

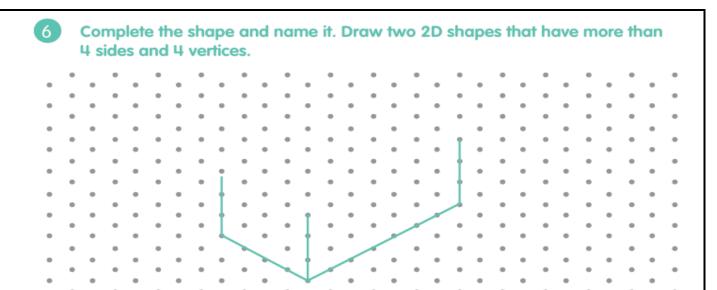
1 Identify 2D and 3D shapes. Colour 2D shapes blue and 3D shapes green.



2 How many acute and obtuse angles are there?
Use a set square to check. Write A for acute angles and O for obtuse angles.







Answer: Answer may vary.



Draw the following shapes

- A triangle with 3 acute angles.
- A pentagon with an acute angle.
- A shape with 2 right angles, one acute angle, and one obtuse angle.

Answer: Answer may vary.

Finish each pattern	n by drawing the shape that comes next.		
2)			
3)			
4))		
5)	>\(
6) 🔷 🗀	><>		
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