Symmetry
Subtopic: INTRODUCTION, LINES OF SYMMETRY FOR REGULAR POLYGONS

Section 1

1 Mark T for True and F for False

1a. Symmetry can be found in flowers and tree leaves.

1b. If a figure can be folded about a line so that the two parts coincide, we have rotational symmetry.

2 Choose the correct answer

2a A closed figure made of several line segments is called ….

   a) Circle   b) Curved Surface   c) Polygon   d)Surface Area

2b Regular Polygon of 4 sides is …...
   a) Rectangle   b) Square   c) Circle   d) Curved Surface

3 Fill in the blanks :

3a
   The diagonal of a Square are _____ to each other.

3b
   In an equilateral triangle, the measure of each angle is _____.
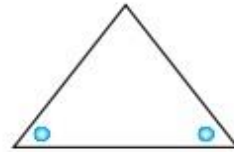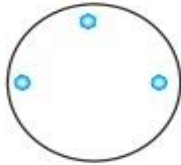
4 Match the following

Answer here

|	Figure	Number of Line of Symmetry		
a)	Square	i) Infinitely many	a)	
b)	A regular hexagon	ii) 4	b)	
c)	A circle	iii) 6	c)	
d)	A scalene triangle	iv) 0	d)	
e)	A parallellogram	v) 2	e)	

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Section 2

5   Find the axes of symmetry for the figure given below with punched holes.

_____

_____

_____

6   Identify the multiple lines of symmetry if any in the following figure.

_____

_____
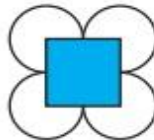
7   Write the reflectional symmetry for alphabets A , B and O.

_____

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_____

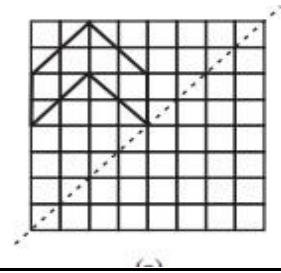## Subtopic: INTRODUCTION, LINES OF SYMMETRY FOR REGULAR POLYGONS

8   Give examples of an alphabet which do not have reflectional symmetry when a mirror is kept i)horizontally ii) vertically.

Section 3

9   In the given diagram, complete the shape to be symmetric about the mirror.

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10   Shade a few more squares in the given figure to make it symmetric about the diagonal shown.