St. Andrews Scots Sr. Sec. School

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Session:2024-25

Worksheet

Class: VII	Subject: Mathematics	Topic: Reflection and	Worksheet 14
		symmetry	

Solve these:

1. How many lines of symmetry do the following have:

(a) a parallelogram

(b) an equilateral triangle

(c) a right angle with equal legs

- (d) an angle with equal arms
- (e) a semicircle
- (f) a rhombus
- (g) a square

2.Name any two figures that have both line symmetry and rotational symmetry.

3.Can we have a rotational symmetry of order more than 1 whose angle of rotation is

(i) 45°?

(ii) 17°?

4. What letters of the English alphabet have reflectional symmetry (i.e., symmetry related to mirror reflection) about.

- (a) a vertical mirror
- (b) a horizontal mirror
- (c) both horizontal and vertical mirrors

5.Draw any two English alphabets having an only a vertical line of symmetry.

6.Draw any two English alphabets having both horizontal and vertical line of symmetry.

7. State the order of rotational symmetry of the following figures.



8.Draw a figure having an infinite number of lines of symmetry.

9. Give the order of rotational symmetry of each of the following figures:



10.Draw any two figures which have the order of rotational symmetry 2.