

Symmetry

Subtopic: Rotational Symmetry, Line Symmetry and Rotational Symmetry

Section 1

- 1 Mark T for True and F for False
- 1a. Square is an example of a figure that has both line symmetry and Rotational symmetry.
- 1b. The wheels of a bicycle rotate both in clockwise and anticlockwise direction.



- 2 Choose the correct answer
- 2a The order of rotational symmetry of the letter Z is....
- a) 2 b) 4 c) 3 d) 6
- 2b The symmetry of a windmill is
- a) Line b) Rotational c) Reflectional d) Curved line

- 3 Fill in the blanks :
- 3a The point about which an object rotates is called _____.
- 3b The order of rotational symmetry of a semicircle is _____.

- 4 Match the following

Answer here

	Figure	Order of Rotational Symmetry		
a)		i) 4	a)	
b)		ii) 2	b)	
c)		iii) 4	c)	
d)		iv) 5	d)	
e)		v) 6	e)	

Symmetry

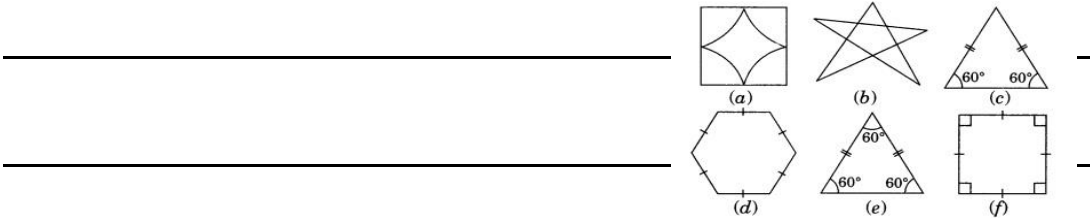
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Section 2

- 5 Show with diagram order of the rotational symmetry for an equilateral triangle.

- 6 Can we have a rotational symmetry of order more than 1 whose angle of rotation is (i) 36° and (ii) 19° ?

- 7 Give the order of rotational symmetry of each of the following figures.



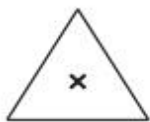
Symmetry

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8 Which of the following figures have rotational symmetry of order more than 1?



(a)



(b)



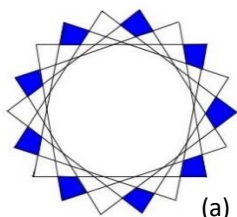
(c)



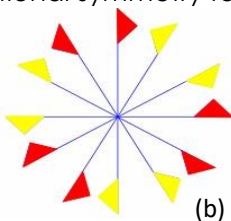
(d)

Section 3

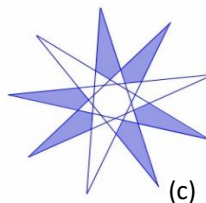
9 What is the order of rotational symmetry for patterns below:



(a)



(b)



(c)

10 Draw a rough sketch of a quadrilateral with line symmetry but not rotational symmetry of order more than 1.
