




## INDIAN SCHOOL NIZWA – WORKSHEET

### MATHEMATICS CH: 12 SYMMETRY

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Class: VII Sec: \_\_\_\_

<b>I.</b>	<b>Fill in the blanks:</b>
1.	A rectangle has _____ lines of symmetry.
2.	A regular hexagon has _____ lines of symmetry.
3.	An equilateral triangle has _____ lines of symmetry.
4.	A _____ triangle has no lines of symmetry.
5.	A rhombus has _____ lines of symmetry where as a square has _____ lines of symmetry.
6.	A kite has _____ lines of symmetry
<b>II.</b>	<b>Choos the correct option</b>
1.	Which of the following has a horizontal line of symmetry: a) P      b) 3      c) M      d) W
2.	What is the number of lines of symmetry of a regular pentagon? a) 5      b) 4      c) 3      d) 2
3.	A rhombus is symmetrical about its: a) Diagonals    b) sides      c) angles      d) none of these.
4.	The figure has  has a rotational symmetry of order: a) 2      b) 3      c) 5      d) 6
5.	In the word ' MATHS' which letter shows rotational symmetry: a) M      b) A      c) H      d) S



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<b>III.</b>	<b>Answer the following</b>												
1.	List any five symmetrical objects from your practical life. Draw their pictures also.												
2.	List all the letters of English alphabets and show how many of them have: <table border="1" data-bbox="337 569 1446 747"><tr><td>1) vertical lines of symmetry</td><td>4) horizontal lines of symmetry</td></tr><tr><td>2) both lines of symmetry.</td><td>5) 4 lines of symmetry</td></tr><tr><td>3) unlimited lines of symmetry.</td><td>6) no line of symmetry</td></tr></table>	1) vertical lines of symmetry	4) horizontal lines of symmetry	2) both lines of symmetry.	5) 4 lines of symmetry	3) unlimited lines of symmetry.	6) no line of symmetry						
1) vertical lines of symmetry	4) horizontal lines of symmetry												
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3.	Draw a rough figure of the following shapes and show how many lines of symmetry they possess: <table border="1" data-bbox="329 827 1118 1094"><tr><td>1) isosceles triangle</td><td>7) line</td></tr><tr><td>2) kite</td><td>8) line segment</td></tr><tr><td>3) square</td><td>9) angle</td></tr><tr><td>4) rectangle</td><td>10) semi- circle</td></tr><tr><td>5) parallel lines</td><td>11) circle</td></tr><tr><td>6) rhombus</td><td>12) arrow head</td></tr></table>	1) isosceles triangle	7) line	2) kite	8) line segment	3) square	9) angle	4) rectangle	10) semi- circle	5) parallel lines	11) circle	6) rhombus	12) arrow head
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4.	List the numbers from 0 to 9 and show how many of them are symmetrical. Also draw their axis of symmetry.												
5.	State the order of rotation and the angle of rotation of the following: a) Square    b) equilateral triangle    c) rhombus    d) alphabets: N, H, I, X, W, M e) rectangle												
6.	What is the order of rotation and the angle of rotation of a ceiling fan with: (i) 3 blades    (ii) 4 blades												
7.	State the order of rotation and the angle of rotation of the following figures: 