



**VIDYA BHARATI SCHOOL**  
**OLYMPIAD WORKSHEET: OCT- 2017**  
**GRADE: VII**  
**SUBJECT: MATHEMATICS**

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1. The letter A has -----  
(a) Reflection symmetry                      (b) Rotational symmetry                      (c) Translation symmetry  
(d) None of these
  
2. Regular hexagon has-----  
(a) 3 axes of symmetry                      (b) axes of symmetry   (c) 1 axes of symmetry   (d) None of these
  
3. Equilateral triangle has -----lines of symmetry  
(a) 1                      (b) 2                      (c) 3                      (d) 0
  
4. A square has ----- lines of symmetry  
(a) 1                      (b) 2                      (c) 3                      (d) 4
  
5. Regular pentagon has----- lines of symmetry  
  
(a) 5                      (b) 4                      (c) 3                      (d) None of these
  
6. Regular hexagon has -----lines of symmetry  
  
(a) 5                      (b) 6                      (c) 8                      (d) None of these
  
7. In square angle of rotation is -----  
(a)  $45^{\circ}$                       (b)  $75^{\circ}$                       (c)  $90^{\circ}$                       (d) None of these
  
8. In square, the order of rotation symmetry is -----  
  
(a) 4                      (b) 2                      (c) 3                      (d) 1
  
9. In square, the direction of rotation is -----  
  
(a) clockwise                      (b) anticlockwise                      (c) None of these

10. Number of lines of symmetry of letter Z  
(a) 0 (b) 1 (c) 3 (d) 2
11. Number of lines of symmetry of letter S  
(a) 0 (b) 1 (c) 2 (d) None of these
12. If two angles have the same measure, they are  
(a) congruent (b) parallel (c) corresponding (d) None of these
13. Two line segments are congruent if they have  
(a) same length (b) different length (c) none of these
14. Among two congruent angles, one has a measure of  $70^\circ$ , the measure of the other angle is  
(a)  $110^\circ$  (b)  $20^\circ$  (c)  $70^\circ$  (d)  $90^\circ$
15. In the triangle ABC,  $AB=BC=AC$ . Which triangle is it?  
(a) Scalene (b) Isosceles (c) Equilateral (d) None of these
16. Which of these is not a congruency property?  
(a) SSS (b) SAS (c) ASA (d) AAA
17. Triangle ABC and DEF are congruent by SSS rule. Which of these is not equal?  
(a)  $AB=DE$  (b)  $AC=DF$  (c)  $BC=DE$  (d)  $\angle ABC = \angle DEF$
18. Circle has----- lines of symmetry.  
(a) 10 (b) Infinite (c) 20 (d) None of these
19. Congruency can be proved by how many properties ?  
(a) 1 (b) 2 (c) 3 (d) 4

20. The given figure has----- lines of symmetry.

**A**

(a) 2

(b) infinite

(c) 1

(d) 3

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\*For more practice material please click: [www.brilliant.org](http://www.brilliant.org); [www.sofolympiadtrainer.co](http://www.sofolympiadtrainer.co)  
[www.olympiadhelper.com](http://www.olympiadhelper.com)