

VIDYA BHARATI SCHOOL

OLYMPIAD WORKSHEET: Apr-2017

GRADE: VIII

SUBJECT: MATHEMATICS

1.A simple closed curve made up of only ______ is called a polygon . (b) line segments (c) lines (d) closed curves (a)curves 2. A polygon with minimum number of sides is (a) Pentagon (b) Square (c) triangle (d) angle 3.Polygons that have no portions of their diagonals in their exteriors are called (a) Squares (b) triangles (c) convex (d) concave 4. Polygons that have any portions of their diagonals in their exteriors are called (a) Squares (b) triangles (c) convex (d) concave 5. All the sides of a regular polygon are ____ (a) Parallel (b) equal in length (c) not parallel (d) not equal 6. All the angles of a regular polygon are of _____ (b) 60 (c) equal measure (d) equal length (a) 90 7. Sum of all interior angles of a polygon with (n) sides is given by (a) (n –2) x 1800 (b) n –2 x 1800 (c) (n + 2)x 1800 (d) n + 2 x 180 8. Maximum number of right angles in a right angled triangle are (a) 2 (b) 1 (d) 0 (c) 3 9.Sum of all interior angles of a parallelogram is (c) 540 (d) 240 (a) 180 (b) 360 10. The angle sum of all interior angles of a convex polygon of sides 7 is (a) 180 (b) 540 (c) 630 (d) 900 11. Each exterior angle of a regular hexagon is of measure (a) 120 (b) 80 (c)100 (d) 60 12. The number of sides in a regular polygon is 15, then measure of each exteriorangle is (a) 24 (b) 36 (c)20 (d)18

13. The measure of each interior angle of a regular polygon is 140^{0,} then number of sides that regular polygon has

(a) 15 (b) 12 (c) 9 (d) 10

14. The sum of the three consecutive even numbers is 222. Find the numbers.

a)73,74,75 b) 74,74,74 c) 72,74,76 d) none

15. The ratio of girls: boys in a school is 5: 7. if there are 525 girls, how many boys are there?

a)375 b) 625 c) 735 d) 325

16. I climb half the steps in a staircase. Next I climb one-third of the remaining steps. The I climb one-eighth of the rest and stop to catch my breath. What is the smallest possible number of steps in the staircase?

a) 24 b) 22 c)13 d)15

17. In a group of 25 girls, 8 run for the track team, 13 are on the math team, and 6 are on both teams. How many of the girls are not on either team?

a) 11 b)10 c) 20 d) 30

18. The length of the longest pole that can be put in a room of dimensions 10m x 10mx 5m is

a)16m b)15m c)10 m d)12 m

19. Look at this series: 53, 53, 40, 40, 27, 27, ... What number should come next?

a)12 b) 14 c) 27 d) 53

20. Which of the following polygons is convex polygon ? (a) circle b)triangle c)linesegment d)none

*For more practice material please click: www.brilliant.org; www.sofolympiadtrainer.co www.olympiadhelper.com