

## Similar Figures

Sr	Questions	Answers Choice
1	The exterior angle of regular pentagon is	A. 40 <sup>o</sup> B. 45 <sup>o</sup> C. 60 <sup>o</sup> D. 72 <sup>o</sup>
2	A regular polygon has an interior angle of 165 °. How many sides does it have?	A. 15 B. 16 C. 20 D. 24
3	The ratio of corresponding sides of similar figures is called	A. Common factor B. Scale factor C. Grading factor D. Proportion
4	Whch of the following is the symbol of similarity.	A. $\sim$ B. = C. $\cong$ D. $\propto$
5	The parallelogram has an area of 64 cm <sup>2</sup> and a similar parallelogram has an area of 144 cm <sup>2</sup> . If a side of the smaller parallelogram is 8 cm, what is the corresponding side of the larger parallelogram?	A. 10 cm B. 12 cm C. 18 cm D. 16 cm
6	If radii of two circles are in the ratio 2:3 then their surface areas are in the ratio.	A. 2:3 B. 4:9 C. 8:18 D. 8:27
7	The quality of two ratios is called	A. Proper factor B. Scale factor C. Area factor D. Proportion
8	The total number of diagonals in a polygon i with 9 sides is	A. 18 B. 21 C. 25 D. 27
9	In similar figures corresponding angles are congruent and corresponding sides are	A. Congruent B. Parallel C. Perpendicular D. Proportional
10	If two Spheres have volumes in th ratio 8:27 then their corresponding lengths are in the ratio.	A. 2:3 B. 4:9 C. 8:18 D. 8:27

11	The each interior and exterior angle of which regular polygon is equal	A. Square B. Pentagon C. Hexagon D. Heptagon
12	If two polygons are similar, then	A. Their corresponding angles are equal B. Their areas are equal C. Their volumes are equal D. Their corresponding sides are equal
13	The each interior angle of regular pentagon is.	A. $20^\circ$ B. $108^\circ$ C. $36^\circ$ D. $72^\circ$
14	How many equilateral triangles are in a regular hexagon.	A. 4 B. 5 C. 6 D. 8
15	The sum of interior angles of which regular polygon is $1080^\circ$	A. Pentagon B. Hexagon C. Heptagon D. Octagon
16	Two spheres are similar, and their radii are in the ratio 4:5. If the surface area of the larger sphere is 500	A. B. C. D. E. F. G. H. I. J. K. L. M. N. O. P. Q. R. S. T. U. V. W. X. Y. Z.
17	The interior and exterior angles of regular hexagon are in the ratio.	A. 1:2 B. 2:1 C. 1:6 D. 2:3
18	In a regular hexagon, the ratio of the length of a diagonal to the side length is.	A. 2:1 B. 3:2 C. 2:3 D. 4:1
19	The each interior angle of which regular polygon is $108^\circ$	A. Square B. Pentagon C. Hexagon D. Heptagon
20	The ratio of the areas of two similar polygons is	A. Equal to the ratio of their perimeters B. Equal to the square of the ratio of their corresponding sides C. Equal to the cube of the ratio of their corresponding side D. Equal to the sum of their corresponding sides