

Similar Figures

Sr	Questions	Answers Choice
1	How many equilateral triangles are in a regular hexagon.	A. 4 B. 5 C. 6 D. 8
2	The sum of interior angles of which regular polygon is 1080 °	A. Pentagon B. Hexagon C. Heptagon D. Octagon
3	The each interior angle of regular pentagon is.	A. 20 B. 108 C. 36 D. 72
4	In similar figures corresponding angles are congruent and corresponding sides are	A. Congruent B. Parallel C. Perpendicular D. Proportional
5	The total number of diagonals in a polygon with 9 sides is	A. 18 B. 21 C. 25 D. 27
6	If two Spheres have volumes in the ratio 8:27 then their corresponding lengths are in the ratio.	A. 2:3 B. 4:9 C. 8:18 D. 8:27
7	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
8	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
9	The exterior angle of regular pentagon is	A. 40 B. 45 C. 60 D. 72
10	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
11	The ratio of corresponding sides of similar figures is called	A. Common factor B. Scale factor C. Grading factor D. Proportion
12	If the volume of two similar solids is 125 cm ³ and 27 cm ³ , the ratio of their corresponding heights is.	A. 3:5 B. 5:3 C. 25:9 D. 9:25
13	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.
14	The each interior and exterior angle of which regular polygon is equal	A. Square B. Pentagon C. Hexagon D. Heptagon
	The parallelogram has an area of 64 cm ² and a similar parallelogram has an area of 144	A. 10 cm B. 12 cm C. 14 cm D. 16 cm

15	cm ² . If a side of the smaller parallelogram is 8 cm, what is the corresponding side of the larger parallelogram?	<p>B. 12 cm C. 18 cm D. 16 cm</p>
16	The ratio of the areas of two similar polygons is	<p>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</p>
17	Which of the following is the symbol of similarity.	<p>A. \sim B. = C. \cong D. \approx</p>
18	The interior and exterior angles of regular hexagon are in the ratio.	<p>A. 1:2 B. 2:1 C. 1:6 D. 2:3</p>
19	A regular polygon has an interior angle of 165°. How many sides does it have?	<p>A. 15 B. 16 C. 20 D. 24</p>
20	If the sum of interior angles of a regular polygon is 1440° then number of sides are	<p>A. 8 B. 10 C. 12 D. 14</p>