

Similar Figures

Sr	Questions	Answers Choice
1	The parallelogram has an area of 64 cm ² and a similar parallelogram has an area of 144 cm ² . 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
2	In similar figures corresponding angles are congruent and corresponding sides are	A. Congruent B. Parallel C. Perpendicular D. Proportional
3	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
4	Two spheres are similar, and their radii are in the ratio 4:5. If the surface area of the larger sphere is 500	A. <p class="MsoNormal"><!-- [endif]--><o:p></o:p></p>
5	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
6	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
7	A regular polygon has an exterior angle of 30 °. How many diagonals does the polygon have?	A. 54 B. 90 C. 72 D. 108
8	The total number of diagonals in a polygon i with 9 sides is	A. 18 B. 21 C. 25 D. 27
9	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
10	A regular polygon has an interior angle of 165 °. How many sides does it have?	A. 15 B. 16 C. 20 D. 24
11	The each interior and exterior angle of which regular polygon is equal	A. Square B. Pentagon C. Hexagon D. Heptagon
12	The each interior angle of regular pentagon is.	A. 20 ⁰ B. 108⁰ C. 36 ⁰ D. 72 ⁰
13	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
		A. <p class="MsoNormal">

14	Which of the following is the symbol of similarity.	<p>bidi-font-family:Calibri;mso-bidi-theme-font:minor-latin">>~<o:p></o:p></p></p> <p>B. =</p> <p>C. ≡</p> <p>D. <p class="MsoNormal">≈<o:p></o:p></p></p>
15	Which of the following is scale factor of area.	<p>A. K</p> <p>B. K²</p> <p>C. 2K</p> <p>D. K³</p>
16	The each interior angle of which regular polygon is 108°	<p>A. Square</p> <p>B. Pentagon</p> <p>C. Hexagon</p> <p>D. Heptagon</p>
17	If the volume of two similar solids is 125 cm ³ and 27 cm ³ , the ratio of their corresponding heights is.	<p>A. 3:5</p> <p>B. 5:3</p> <p>C. 25:9</p> <p>D. 9:25</p>
18	Ratio has	<p>A. Fixed</p> <p>B. No symbol</p> <p>C. No unit</p> <p>D. No importance</p>
19	The repeating pattern of regular shapes is called.	<p>A. Tessellation</p> <p>B. Oscillation</p> <p>C. Rotation</p> <p>D. Citation</p>
20	The interior and exterior angles of regular hexagon are in the ratio.	<p>A. 1:2</p> <p>B. 2:1</p> <p>C. 1:6</p> <p>D. 2:3</p>