Similar Figures

Sr	Questions	Answers Choice
1	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
2	The interior and exterior angles of regular hexagon are in the ratio.	A. 1:2 B. 2:1 C. 1:6 D. 2:3
3	The repeating pattern of regular shapes is called.	A. Tessellation B. Oscillation C. Rotation D. Citation
4	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
5	A regular polygon has an interior angle of 165 ^{o}. How many sides does it have?	A. 15 B. 16 C. 20 D. 24
6	The each interior angle of which regular polygon is 108 ^{o}	A. Square B. Pentagon C. Hexagon D. Heptagon
7	The total number of diagonals in a polygon i with 9 sides is	A. 18 B. 21 C. 25 D. 27
8	If the sum of interior angles of a rgular polygon is 1440 ^{o} then number of sides are	A. 8 B. 10 C. 12 D. 14
9	The exterior angle of regular pentagon is	A. 40 ^{o} B. 45 ^{o} C. 60 ^{o} D. 72 ^{o}
10	How many equilateral triangles are in a regular hexagon.	A. 4 B. 5 C. 6 D. 8
11	The parallelogram has an area of 64 cm2 and a similar parallelogram has an area of 144 cm2. 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
12	A regular polygon has an exterrior angle of 30 ^{o}. How many diagonals does the polygon have?	A. 54 B. 90 C. 72 D. 108
13	The sum of interior angles of which regular polygon is 1080 ^{o}	A. Pentagon B. Hexagon C. Heptagon D. Octagon
14	If the volume of two similar solids is 125 cm3 nd 27 cm 3, the ratio of their correspoding heights is.	A. 3:5 B. 5:3 C. 25:9 D. 9:25
15	The each interior and exterior angle of which regular polygon is equal	A. Square B. Pentagon C. Hexagon D. Heptagon

#	Question	Options
16	The ratio of corresponding sides of similar figures is called	A. Common factor B. Scale factor C. Grading factor D. Proportion
17	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>
18	Which of the followign is scale factor of area.	A. K B. K^2 C. $2K$ D. K^3
19	If two polygons are similar, then	A. Their correspoding angles are equal B. Their areas are equal C. Their volumes are equal D. Their corresponding sides are equal
20	In similar figures corresponding angles are congruent and corresponding sides are	A. Congruent B. Parallel C. Perpendicular D. Proportional