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 interior and exterior angles of regular hexagon are in the ratio.	A. 1:2 B. 2:1 C. 1:6 D. 2:3
3	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
4	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
5	The ratio of corresponding sides of similar figures is called	A. Common factor B. Scale factor C. Grading factor D. Proportion
6	Two spheres are similar, and their radii are in the ratio 4:5. If the surface area of the larger sphere is 500	A. <!--[endif]--><o:p></o:p>
7	The exterior angle of regular pentagon is	A. 40 ^o B. 45 ^o C. 60 ^o D. 72 ^o
8	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
9	A regular polygon has an interior angle of 165 ^{o}. How many sides does it have?	A. 15 B. 16 C. 20 D. 24
10	The each interior and exterior angle of which regular polygon is equal	A. Square B. Pentagon C. Hexagon D. Heptagon
11	Ratio has	A. Fixed B. No symbol C. No unit D. No importance
12	The repeating pattern of regular shapes is called.	A. Tessellation B. Oscillation C. Rotation D. Citation
13	Which of the followign is scale factor of area.	A. K B. K² C. 2K D. K³
14	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
15	A regular polygon has an exterrior angle of 30 ^{o}. How many diagonals does the polygon have?	A. 54 B. 90 C. 72 D. 100

		D. 108
16	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
17	Whch of the following is the symbol of similarity.	A. ~<o:p></o:p> B. = C. <span style="font-size:22.0pt;mso-bidi-font-size:11.0pt; line-height:107%;font-family:"Calibri",sans-serif;mso-ascii-theme-font:minor-latin; mso-fareast-font-family:Calibri;mso-fareast-theme-font:minor-latin;mso-hansi-theme-font: minor-latin;mso-bidi-theme-font:minor-latin;mso-ansi-language:EN-US;mso-fareast-language: EN-US;mso-bidi-language:AR-SA">≡ D. ≈<o:p></o:p>
18	The total number of diagonals in a polygon i with 9 sides is	A. 18 B. 21 C. 25 D. 27
19	The sum of interior angles of which regular polygon is 1080 ^{o}	A. Pentagon B. Hexagon C. Heptagon D. Octagon
20	The quality of two ratios is called	A. Proper factor B. Scale factor C. Area factor D. Proportion