

Mathematics 9th Class English Medium Unit 9 Online Test

Sr	Questions	Answers Choice
1	If two polygons are similar, then	<p>A. Their corresponding angles are equal</p> <p>B. Their areas are equal</p> <p>C. Their volumes are equal</p> <p>D. Their corresponding sides are equal</p>
2	The ratio of the areas of two similar polygons is	<p>A. Equal to the ratio of their perimeters</p> <p>B. Equal to the square of the ratio of their corresponding sides</p> <p>C. Equal to the cube of the ratio of their corresponding side</p> <p>D. Equal to the sum of their corresponding sides</p>
3	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>
4	The exterior angle of regular pentagon is	<p>A. 40°</p> <p>B. 45°</p> <p>C. 60°</p> <p>D. 72°</p>
5	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?	<p>A. 10 cm</p> <p>B. 12 cm</p> <p>C. 18 cm</p> <p>D. 16 cm</p>
6	The total number of diagonals in a polygon with 9 sides is	<p>A. 18</p> <p>B. 21</p> <p>C. 25</p> <p>D. 27</p>
7	Two spheres are similar, and their radii are in the ratio 4:5. If the surface area of the larger sphere is 500	<p>A. 250π</p> <p>B. 125π</p> <p>C. 625π</p> <p>D. 312.5π</p>
8	A regular polygon has an exterior angle of 30° . How many diagonals does the polygon have?	<p>A. 54</p> <p>B. 90</p> <p>C. 72</p> <p>D. 108</p>
9	In a regular hexagon, the ratio of the length of a diagonal to the side length is.	<p>A. 2:1</p> <p>B. 3:2</p> <p>C. 2:3</p> <p>D. 4:1</p>
10	A regular polygon has an interior angle of 165° . How many sides does it have?	<p>A. 15</p> <p>B. 16</p> <p>C. 20</p> <p>D. 24</p>
11	Which of the following is the symbol of similarity.	<p>A. \sim</p> <p>B. \cong</p> <p>C. \propto</p> <p>D. \approx</p>

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D. <p class="MsoNormal">≈<o:p></o:p></p>

12	In similar figures corresponding angles are congruent and corresponding sides are	A. Congruent B. Parallel C. Perpendicular D. Proportional
13	Ratio has	A. Fixed B. No symbol C. No unit D. No importance
14	The ratio of corresponding sides of similar figures is called	A. Common factor B. Scale factor C. Grading factor D. Proportion
15	The quality of two ratios is called	A. Proper factor B. Scale factor C. Area factor D. Proportion
16	Which of the followign is scale factor of area.	A. K B. K^2 C. 2K D. K^3
17	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
18	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
19	The sum of interior angles of which regular polygon is 1080°	A. Pentagon B. Hexagon C. Heptagon D. Octagon
20	The each interior angle of which regular polygon is 108°	A. Square B. Pentagon C. Hexagon D. Heptagon
21	The each interior and exterior angle of which regular polygon is equal	A. Square B. Pentagon C. Hexagon D. Heptagon
22	The interior and exterior angles of regular hexagon are in the ratio.	A. 1:2 B. 2:1 C. 1:6 D. 2:3
23	If the sum of interior angles of a rgular polygon is 1440° then number of sides are	A. 8 B. 10 C. 12 D. 14
24	The each interior angle of regular pentagon is.	A. 20° B. 108° C. 36° D. 72°
25	How many equilateral triangles are in a regular hexagon.	A. 4 B. 5 C. 6 D. 8
26	The repeating pattern of regular shapes is called.	A. Tessellation B. Oscillation C. Rotation D. Citation