

Mathematics 9th Class English Medium Unit 9 Online Test

| Sr | Questions | Answers Choice |
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| 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. </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. </p> <p>B. =</p> <p>C. </p> |

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

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| 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 |