

Name _____

Equivalent Ratio

Equivalent Ratios in Geometry.

<p>1) The ratio of the perimeters of two similar rectangles is 1:3. If the perimeter of the smaller rectangle is 12 units, what is the perimeter of the larger rectangle?</p> <p>36 units</p>	<p>2) In two similar polygons, the ratio of their corresponding side lengths is 5:7. If a side of the first polygon is 15 units, what is the length of the corresponding side in the second polygon?</p> <p>21 units</p>
<p>3) Two similar triangles have a ratio of their areas as 9:16. If the area of the smaller triangle is 45 square units, what is the area of the larger triangle?</p> <p>80 square units</p>	<p>4) In two similar figures, the ratio of the lengths of their corresponding diagonals is 4:5. If the diagonal of the smaller figure is 8 units, what is the diagonal of the larger figure?</p> <p>10 units</p>
<p>5) Two similar rectangles have a ratio of their widths as 2:3. If the width of the larger rectangle is 18 units, what is the width of the smaller rectangle?</p> <p>12 units</p>	<p>6) The ratio of the radii of two similar circles is 3:4. If the radius of the smaller circle is 9 units, what is the radius of the larger circle?</p> <p>12 units</p>
<p>7) The ratio of the areas of two similar rhombuses is 1:4. If the area of the smaller rhombus is 10 square units, what is the area of the larger rhombus?</p> <p>40 square units</p>	<p>8) The ratio of the heights of two similar triangles is 4:7. If the height of the larger triangle is 28 units, what is the height of the smaller triangle?</p> <p>16 units</p>