

Geometry Dilations



Geometry Dilations



Directions: Solve each problem and show all work. Remember that a dilation changes the size of a figure, but preserves its shape.

1. A triangle has vertices at $A(1, 2)$, $B(3, 2)$, and $C(2, 5)$. Perform a dilation with a scale factor of 2 centered at the origin. Write the coordinates of the new triangle.

2. A rectangle has vertices at $P(2, 1)$, $Q(5, 1)$, $R(5, 4)$, and $S(2, 4)$. Dilate it by a scale factor of 0.5 centered at the origin. Write the coordinates of the image.

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6. A photo is enlarged by a scale factor of 1.5. The original width is 10 cm and the height is 15 cm. What are the dimensions of the enlarged photo?

7. A small wheel of a building or ball with a scale factor of 0.75 compared to the one building. If the wheel's height is 10 inches, what is the real building's height?

8. A triangle has side lengths of 3 cm, 4 cm, and 5 cm. The dilation factor of 1.5 that will be the side length?

9. A square has side length of 10 cm. It is dilated by a scale factor of 0.5. What is the new side length?

8th Grade



Geometry Resource 8 Practice A

Chao Zhang



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