

Additional Practice

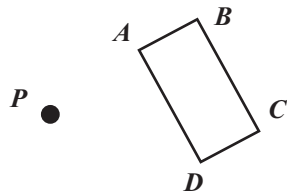
11.3

NAME _____

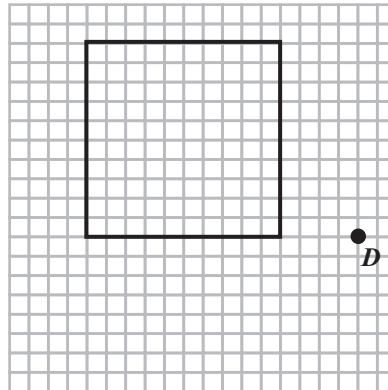
Module 11 Transformations of Shapes
Lesson 3 Dilations

Construct a dilation with the given center and scale factor.

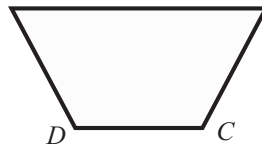
1. Center: P ; scale factor: 3



2. Center: D ; scale factor: $\frac{1}{2}$



3. Center: A ; scale factor: 2



4. A triangle with vertices $A(-2, 3)$, $B(0, -4)$, and $C(6, -4)$ is dilated, and its image points are $A'\left(-\frac{1}{2}, \frac{3}{4}\right)$, $B'(0, -1)$, and $C'\left(1\frac{1}{2}, -1\right)$. What was the scale factor? Was the dilation an enlargement or a reduction?

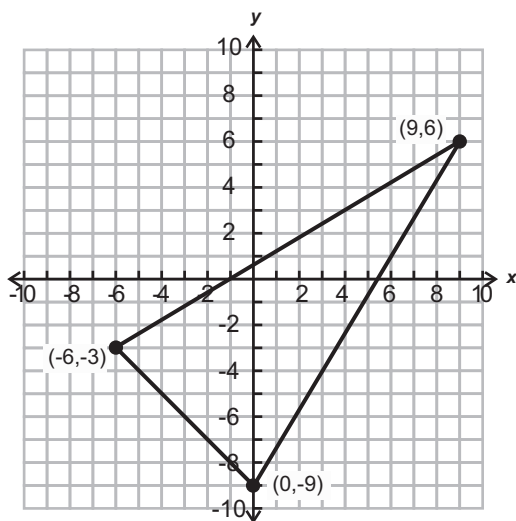


5. A triangle with vertices $A(0, 1)$, $B(-2, -6)$, and $C(1, -4)$ is dilated under a scale factor of $2\frac{1}{2}$. What are the coordinates of the vertices of the image? Was the dilation an enlargement or a reduction?



Draw the dilation with the given scale factor. The center of dilation is $(0, 0)$.

6. Scale factor: $\frac{1}{3}$



7. Scale factor: 4

