

LESSON
Reteach
7-6 Dilations and Similarity in the Coordinate Plane

A **dilation** is a transformation that changes the size of a figure but not its shape. The preimage and image are always similar. A **scale factor** describes how much a figure is enlarged or reduced.

Triangle ABC has vertices $A(0, 0)$, $B(2, 6)$, and $C(6, 4)$. Find the coordinates of the vertices of the image after a dilation with a scale factor $\frac{1}{2}$.

Preimage

Image

$\triangle ABC$

$\triangle A'B'C'$

$$A(0, 0) \rightarrow \left(0 \cdot \frac{1}{2}, 0 \cdot \frac{1}{2}\right) \rightarrow A'(0, 0)$$

$$B(2, 6) \rightarrow \left(2 \cdot \frac{1}{2}, 6 \cdot \frac{1}{2}\right) \rightarrow B'(1, 3)$$

$$C(6, 4) \rightarrow \left(6 \cdot \frac{1}{2}, 4 \cdot \frac{1}{2}\right) \rightarrow C'(3, 2)$$

$\triangle FEG \sim \triangle HEJ$. Find the coordinates of F and the scale factor.

$$\frac{FE}{HE} = \frac{EG}{EJ}$$

Write a proportion.

$$\frac{FE}{6} = \frac{4}{8}$$

$$HE = 6, EG = 4, \text{ and } EJ = 8.$$

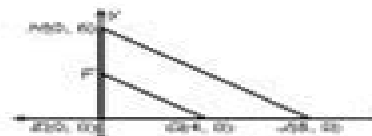
$$8(FE) = 24$$

Cross Products Property

$$FE = 3$$

Divide both sides by 8.

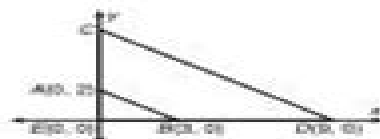
So the coordinates of F are $(0, 3)$. Since $F(0, 3) \rightarrow (0 \cdot 2, 3 \cdot 2) \rightarrow H(0, 6)$, the scale factor is $\frac{2}{1}$.



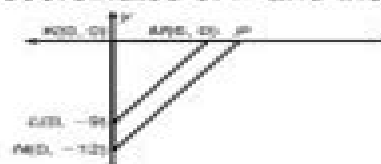
1. Triangle EFG has vertices $E(0, 0)$, $F(1, 5)$, and $G(7, 2)$. Find the coordinates of the image after a dilation with a scale factor $\frac{2}{1}$.

2. Rectangle $LMNP$ has vertices $L(-6, 0)$, $M(6, 0)$, $N(6, -3)$, and $P(-6, -3)$. Find the coordinates of the image after a dilation with a scale factor $\frac{1}{3}$.

3. Given that $\triangle AEB \sim \triangle CED$, find the coordinates of C and the scale factor.



4. Given that $\triangle LKM \sim \triangle NKP$, find the coordinates of P and the scale factor.



Holt Geometry Probability Reteach Answers

J Rink



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