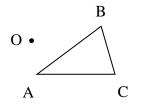
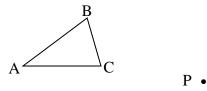
6.1 Dilations Pre-AP Geometry
 Name
 Date

 Period
 Date

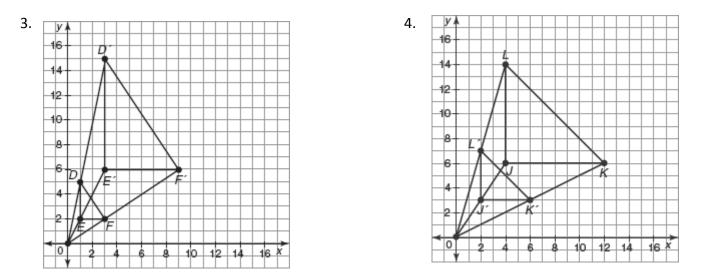
1-2: Draw the dilation image of ΔABC for each center and scale factor.

- 1. A dilation of scale factor 3 with center O
- 2. A dilation of scale factor $\frac{1}{2}$ with center P





3-4, Given the image and pre-image, determine the scale factor.

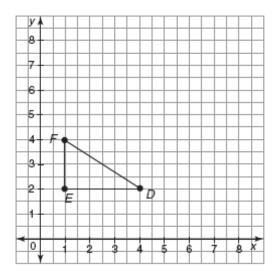


5. $\triangle ABC$ has vertices A(8, 4), B(14, 16), and C(6, 10). What are the vertices of the image after a dilation with a scale factor of $\frac{1}{2}$ using the origin as the center of dilation?

6. The vertices of trapezoid *WXYZ* are W(-1, 2), X(-3, -1), Y(5, -1), and Z(3, 2). Without drawing the figure, determine the coordinates of the vertices of the image of trapezoid *WXYZ* dilated using a scale factor of 5 with the center of dilation at the origin. Explain your reasoning.

Given the pre-image and scale factor, graph the image on the coordinate grid.

7. The scale factor is 2 and the center of dilation is the origin.



8. The scale factor is 3 and the center of dilation is the origin.

