Date:		
Date.		

CHECK YOUR UNDERSTANDING

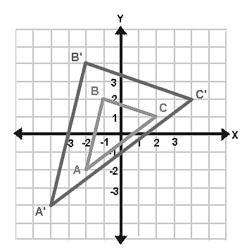
Directions: Work with your partner and complete all problems.

Target 6A: Understand similarity in terms of transformations in the coordinate plane.

1. Determine if the graph illustrates an enlargement or reduction and find the scale factor from $\triangle ABC$ to $\triangle A'B'C'$.

Enlargement or Reduction?

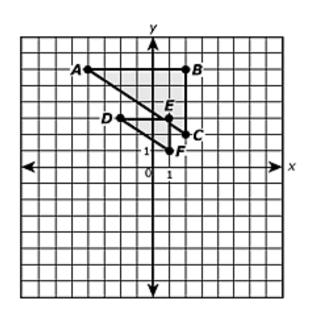
Scale Factor: _____



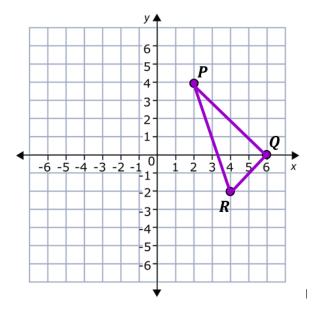
Use the following information to answer questions 2 and 3. In the coordinate plane shown, $\triangle ABC$ has vertices A(-4,6), B(2,6), and C(2,2). The figure transforms (dilates) from $\triangle DEF$ to $\triangle ABC$.

2. Determine the center of dilation:

3. Determine the scale factor:



4. Graph the image of $\Delta P'Q'R'$ after dilation with scale factor of $\frac{1}{2}$, centered at (0,0). Write the coordinates of pre-image and the image in the space provided. Label your points.



P	(,)
Q	(,)
R	(,)

P'	(,)
Q'	(,)
R'	(,)

- 5. Complete a), b), and c) using the coordinate plane below:
 - a) Graph $\triangle ABC$ with vertices at: A(-8, -8), B(4, 4), and C(8, 0). Label your points.
 - b) Dilate $\triangle ABC$ by a scale factor of $\frac{1}{4}$, centered at (0,0).

A'	(,)
В'	(,)
C,	(,)

c) Graph $\Delta A'B'C'$. Label your points.

