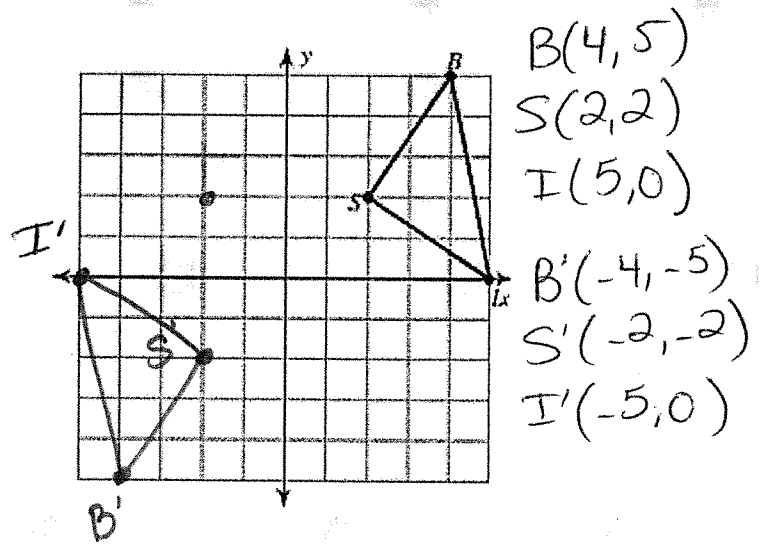
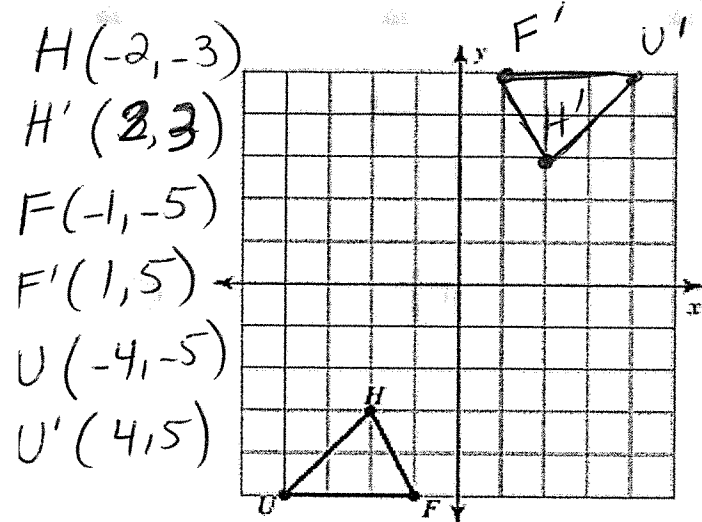


Rotation and dilation review

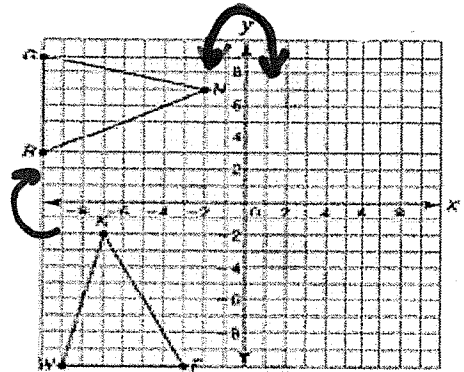
Name: Key

1. Draw and/or list the coordinate points of the image after rotating the following figure 180°.



2-

Describe the transformation done on $\triangle FKW$ to form $\triangle RNG$.



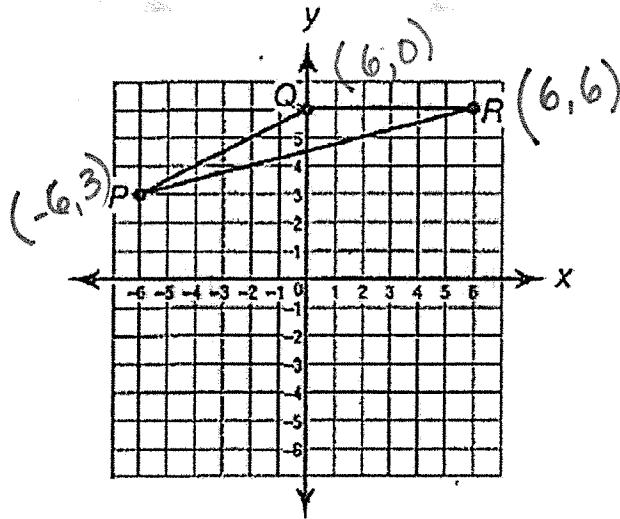
a. rotation about the origin 90° counterclockwise

b. rotation about the origin 90° clockwise

c. reflection over the x -axis

d. translation 5 units right and 9 units up

What are the coordinates of ΔPQR after a dilation with a scale factor of $\frac{2}{3}$?



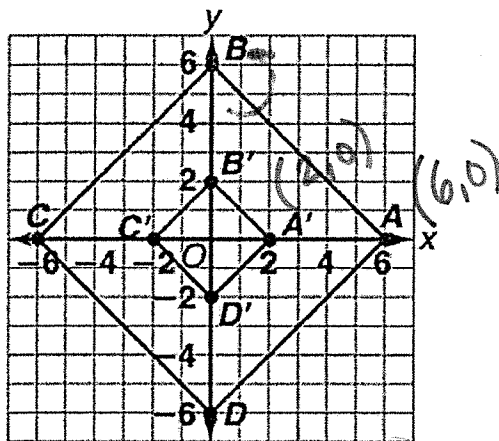
a) $P'(-2, 1), Q'(0, 2), R'(2, 2)$

b) $P'(-4, 2), Q'(0, 4), R'(4, 4)$

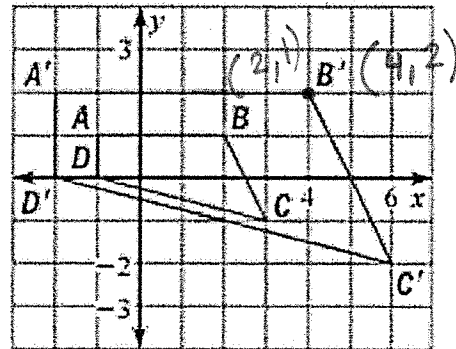
c) $P'(-4, 2), Q'(4, 0), R'(4, 2)$

d) $P'(-12, 6), Q'(0, 12), R'(12, 12)$

4. Determine the scale factor for each picture



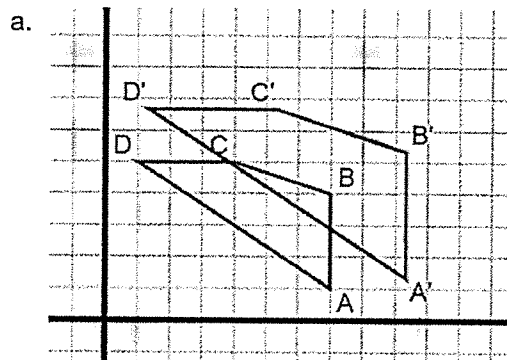
S.F. = $\frac{2}{6} = \frac{1}{3}$
Shrink.



S.F. = $\frac{4}{2} = 2$
Enlarge.

5. Which of the following dilations has a scale factor of $\frac{1}{2}$, centered at the origin?

$$\frac{4}{8} = \frac{1}{2}$$



b.

