Translations Worksheets

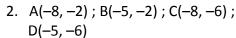


Name:

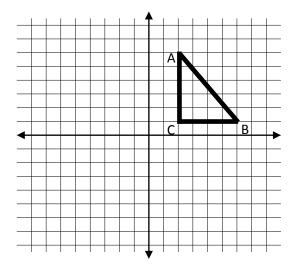
Date: Period:

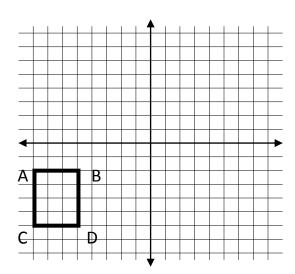
Sketch the image of the pre-image after the given translation. Label each vertex. Label image vertex as A', B', C' etc.

1. Slide 8 left and 5 down.



$$(x, y) \longrightarrow (x + 8, y + 10)$$

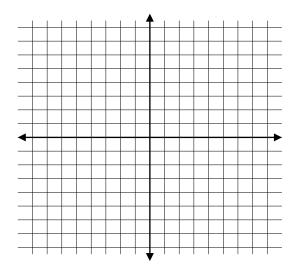




3. Graph and label the polygon determined by the coordinates below, then graph and label the image created by the transformation:

a)

$$(x,y) \to (x+4, y-5)$$

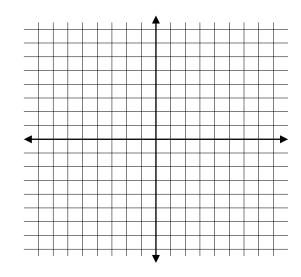


b)

A
$$(0,0)$$
 B $(-6,0)$

$$C(-6,3)$$

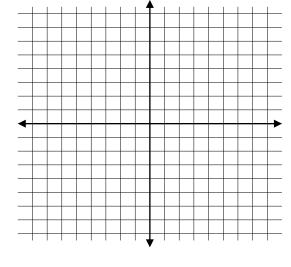
$$(x,y)\to (x+6,y+3)$$



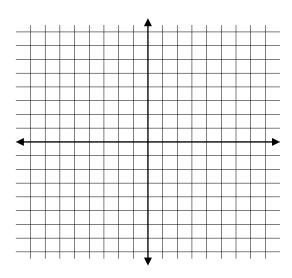
4. Graph and label the polygon determined by the coordinates below, then graph and label the image created by the transformation:

a)
$$\begin{array}{ccc} P \ (5 \ , 3 \) & Q \ (7 \ , 4) \\ R \ (7 \ , 1) \end{array}$$

$$(x,y) \rightarrow (x, y-5)$$



$$(x,y) \rightarrow (x-5, y)$$



5. Describe the translation from the pre-image to the image.

b) Using coordinate notation:

$$(x,y) \rightarrow (x$$
 , y)

