

Translation Practice

Name AK
 Date _____
 Period _____

- Plot the coordinates given for each pre-image.
- Translate the figure as instructed.
- Draw the image on the coordinate plane.
- List the coordinates of the new image.
- Describe what happened to both the x and y

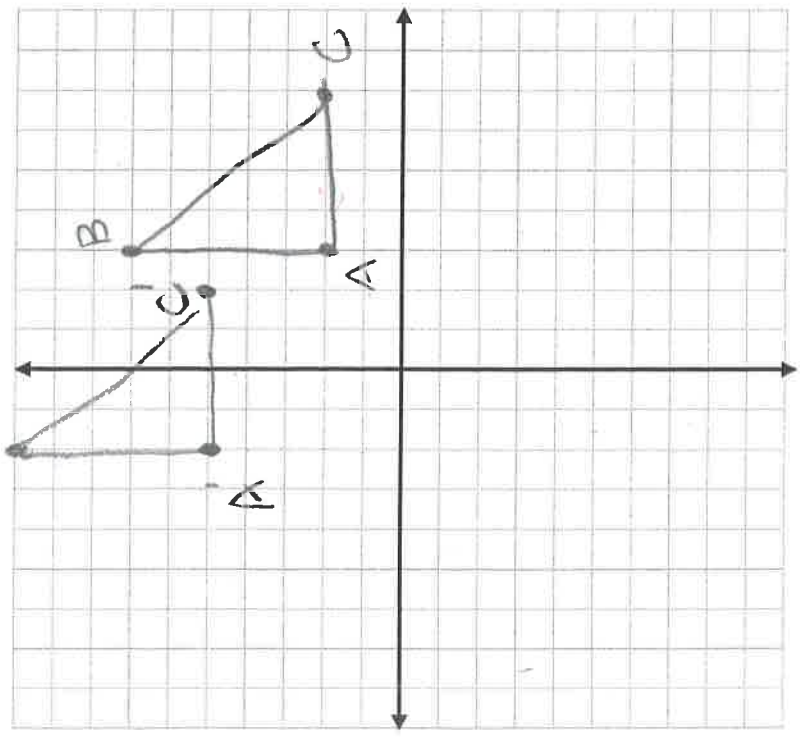
1. Slide the triangle 5 units left and 3 units up

- $A(3, 7) \longrightarrow A'(-2, 10)$
 $B(3, 2) \longrightarrow B'(-2, 5)$
 $C(7, 2) \longrightarrow C'(2, 5)$

Translation
 $(-5, +3)$

$$(x - 5, y + 3)$$

$A(3 - 5 \rightarrow -2)$
 $7 + 3 \rightarrow 10$



2. Translate the parallelogram 10 units left and 2 units down

- $H(3, -2) \longrightarrow H'(-7, -4)$
 $I(1, -5) \longrightarrow I'(-9, -7)$
 $J(6, -5) \longrightarrow J'(-4, -7)$
 $K(8, -2) \longrightarrow K'(-2, -4)$

$$(x - 10, y - 2)$$

