

Translation

- A transformation that moves the image along a straight line.
- Often called a _____.
- To translate a figure:

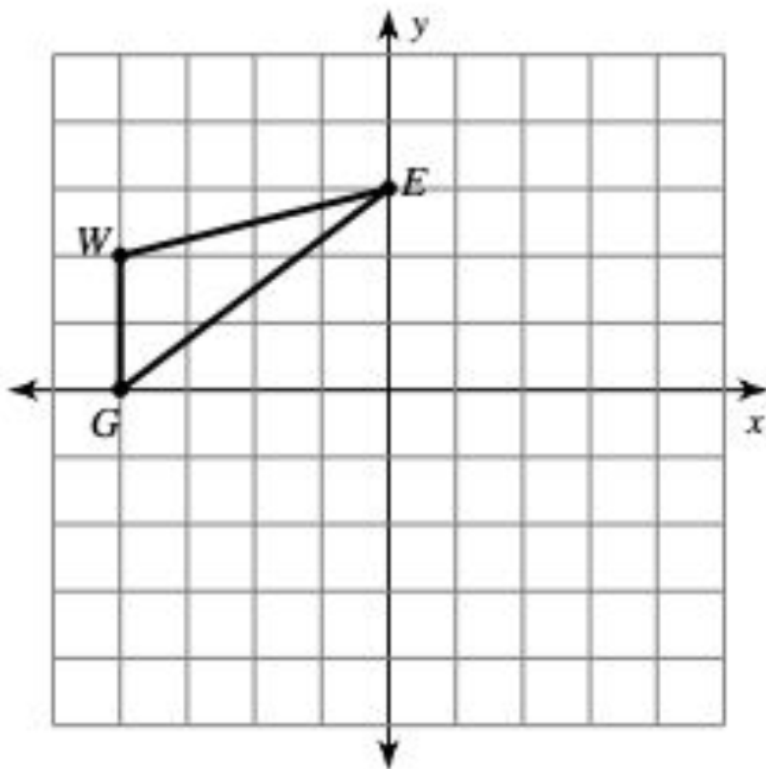
Each point of the figure is moved the same _____
in the same _____.

- The image and the preimage are _____.
-

Example #1

You can describe your translation in words:

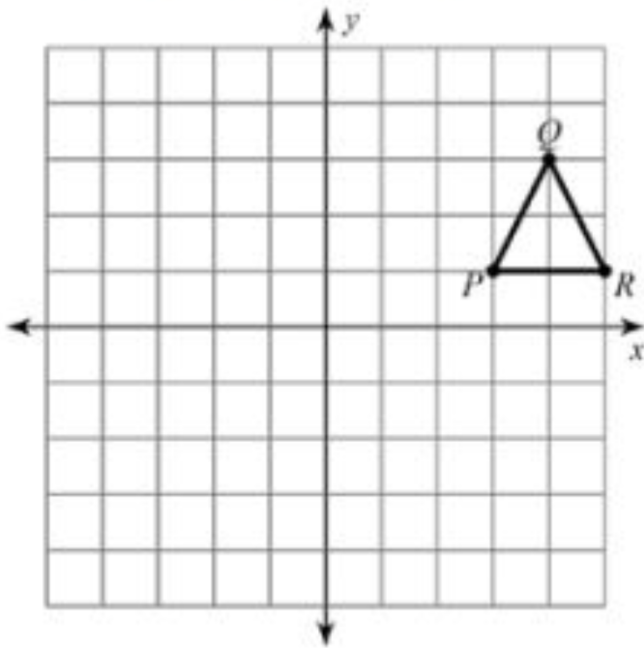
Translate $\triangle WEG$ 1 unit right and 2 units down



Example #2

You can describe your translation using arrow notation:

$$(x, y) \rightarrow (x - 8, y - 2)$$



The **rule** describes how you will move each point of the figure.

Positive values translate a figure

_____ or to the _____.

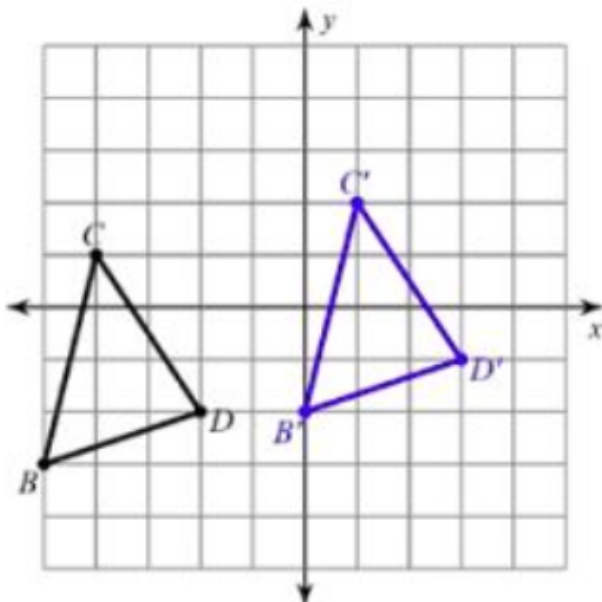
_____ values

translate a figure down or to the

_____.

Example #3

Write the translation that must have occurred



Example #4

Translate the given shape, then rewrite the rule in arrow notation.

Translate 4 units left and 1 unit down

