

Translations & Reflections

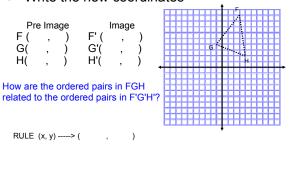
Today's Learning Targets:

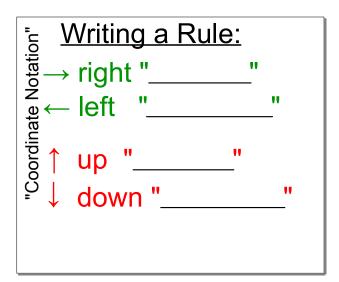
- 3.1 I can perform a translation.
- 3.2 I can perform a reflection.
- 3.3 I can write a rule to describe a translation or reflection.

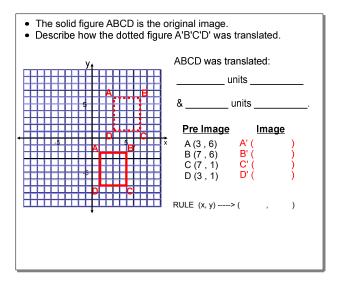
Objective: Identify transformations including translation, rotation, reflection, and dilation Translation Reflection Rotation

,	ansformations including reflection, and dilation
Translationin the	_is moved the ; Left 9, Down 3
New " 3 1 9	Original "

- Write the coordinates for triangle FGH.
- Translate the figure 5 down & 2 left.
- Write the new coordinates







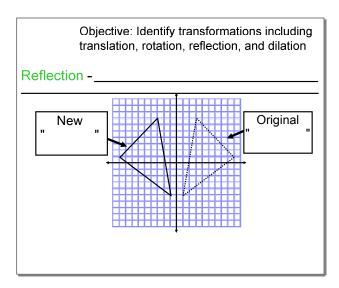
Use coordinate notation to describe the translation:

a. 4 units left, 2 units down:

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

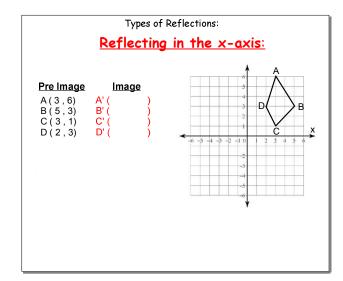
b. Describe the transformation that occurred between the image and pre-image.

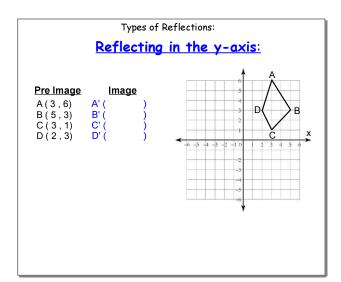
$$\textbf{A (3, 7)} \rightarrow \textbf{A' (8, 4)}$$



Reflection or Flip: A reflect This line is a referred to as a	and is sometimes

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Writing a Rule:
Reflect over X axis:
X, y
$(x,y) \rightarrow (,)$
Reflect over Y axis:
y, x