

## DILATIONS IN THE COORDINATE PLANE

Dilation  
in the coordinate plane



A dilation is a **stretch** or a **shrink** of an image.



## Notation

When dilating an image with a scale factor **K**:

$$D_K P(x, y) \rightarrow P'(x, y)$$



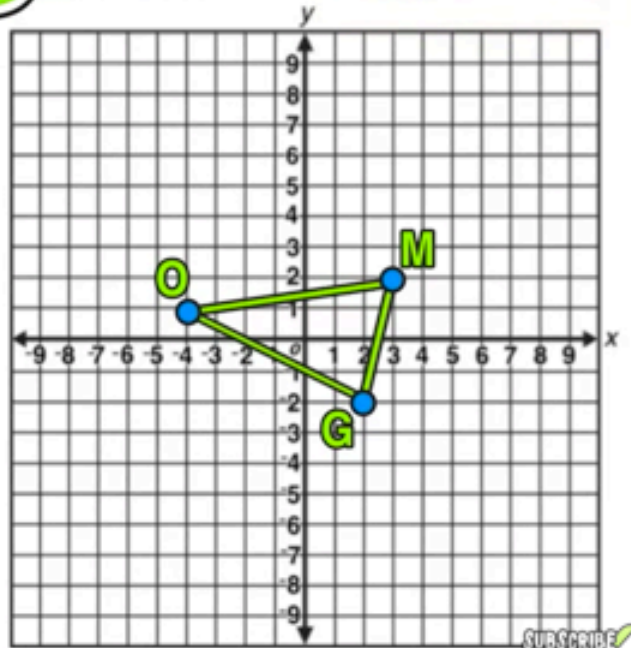
Example #1

# Dilating a Figure

$K > 1$

Perform the following dilation on  $\triangle OMG$ :

$D_2$



Example #2

# Dilating a Figure

$K = 1$

Construct the image of figure MASH' after:

$D_{\frac{1}{3}}$

