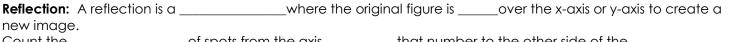
Transformations

SWBAT determine similarity of images created by transformations.

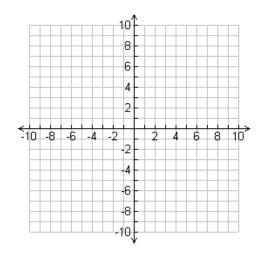
Transformations move a figure without	
Translation:	
Reflection:	
Rotation:	
Dilation:	
Vocabulary	
Transform:	
Rigid Transformation:	
Congruent:	
Translations: To translate a figure on a coordinate plane, you	the tigure in the direction given in
the problem.	
 Choose one point on the original figure and This new point will be labeled with () after each new letter. 	This symbol is called which let's
vou know this figure is the	iriis symbol is called, which let s
you know this figure is the 3. Slide the other original points in the exact same directions a	s the first point making sure you label them
with	s the hist point thaking sole yee label them
 Draw the lines to create the new image, which should be 	to the original (
just in a new place on the coordinate grid.	
Describe this translation.	
	Δ.
107	10
8	A(-2,4) A'(,)
6-	B(1,3) B'(,)
4	C(0,5) C'(,)
2	
	2-
-10 -8 -6 -4 -2 2 4 6 8 10 -10 -8 -6 -4	-2 2 4 6 8 10
2	2-1-1-1-1-1
4	-4
-6-	-6-
-8-	
	-8-
-10	-10 <u>-</u>
101	10}
8-	8-
	6
6	
4-	4
2	2
<10 0 0 4 5 1 3 4 0 0 4 5 10 8 -6 -4	-2 - 2 4 6 8 10
- IU -0 -0 -4 -2 -2 4 0 0 IU	-2
-2-	-4
4-	
-6-	-6
8-	 8
-10	-10
-10	Ψ

new image. Count the _____ of spots from the axis. ____ that number to the other side of the 8 6 -10 -8 -6 -4 -2 -6 -10₁ 6 -10 -8 -6 -4 -2 2 6 -10



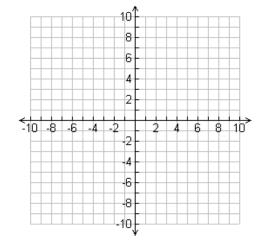
If you reflect the original figure across the y-axis, change the sign of each x-value.

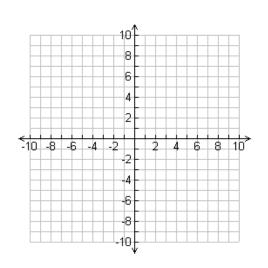
If you reflect the original figure across the xaxis, change the sign of each y-value.

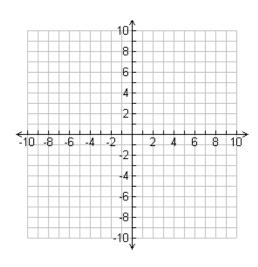


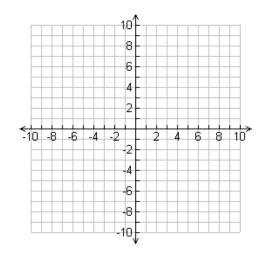
Rotation: A rotation is a transformation in which a figure is ______ a fixed point, call the _______ Rotating a figure creates a _______ figure called an ______ The original figure and the image have the same shape and the same size and are an _____ the center of the rotation.

Rules for Rotation





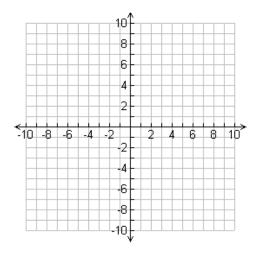


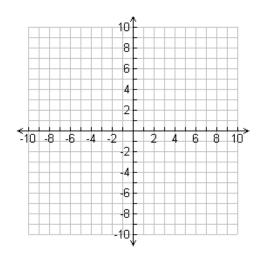


Dilation: Enlarges or Shrinks a shape. The ratio by which the image stretches or shrinks is known as the _____

If the scale facto is ______ then the image is enlarged. If the scale factor is ______ then the image will shrink.

Multiply the dimension of the original image by the scale factor to get the _____





Your Turn!

