PRACTICE: LESSON 10.1 – IDENTIFYING TRANSFORMATIONS & CONGRUENCY Name:

Learning Goal: I can identify a transformation as a translation,	Language Goal: I can discuss with a partner how to determine
reflection, rotation, or dilation and determine congruency of	if a transformation is a translation, reflection, rotation, or
the new and old image.	dilation and then explain our answer.
Meta de Aprendizaje: Puedo identificar una transformación	Lenguaje Objetivo: Puedo discutir con un compañero cómo
como una traducción, reflexión, rotación o dilatación y	determinar si una transformación es una traducción, reflexión,
determinar la congruencia de la imagen nueva y la vieja.	rotación o dilatación y luego explicar nuestra respuesta.

Directions: Use your notes to answer the following questions.

1.	Which rule is the ONLY rule that adds or subtracts ?	
2.	What is a dilation called that gets bigger ?	
3.	Which transformation " <i>flips</i> "?	
4.	Which transformation " <i>turns</i> "?	
5.	Which rule is the ONLY rule that multiplies ?	
6.	What is a dilation called that <i>gets smaller</i> ?	
7.	Which transformation has ONLY two rules?	
8.	What is the rule for a 180° rotation ?	
9.	What is the rule for a reflection across the y-axis?	

10. Which transformation is **NOT** congruent?

Directions: Use your notes to determine if the rule describes a **translation**, **reflection**, **rotation**, or **dilation**.

1. Which transformation is described by the following rule: $(x, y) \rightarrow (x, -y)$	2. Which transformation is described by the following rule: $(x, y) \rightarrow (x + 3, y - 1)$
Answer:	Answer:
3. Which transformation is described by the following rule: $(x, y) \rightarrow (4x, 4y)$	4. Which transformation is described by the following rule: $(x, y) \rightarrow (-x, -y)$
Answer:	
ENLARGEMENT or REDUCTION?	Answer:
5. Which transformation is described by the following rule: $(x, y) \rightarrow (y, -x)$	6. Which transformation is described by the following rule: $(x, y) \rightarrow (-x, y)$
Answer:	Answer:

7. Which transformation is described by the following rule:	8. Which transformation is described by the following rule:
$(x, y) \rightarrow (x, y + 3)$	$(x, y) \rightarrow (0.25x, 0.25y)$
Answer:	Answer: ENLARGEMENT or REDUCTION?
9. Which transformation is described by the following rule:	10. Which transformation is described by the following rule:
$(x, y) \rightarrow (-y, x)$	$(x, y) \rightarrow (\frac{1}{3}x, \frac{1}{3}y)$
Answer:	Answer: ENLARGEMENT or REDUCTION?

Directions: Use your notes to determine if the transformation is a translation, reflection, rotation, or dilation.



Directions: Use your notes to determine if the rule or the graph represents a **translation**, **reflection**, **rotation**, or **dilation**.





18. How do you know when a transformation is a TRANSLATION? ______

19. How do you know when a transformation is a **REFLECTION**?

20. How do you know when a transformation is a ROTATION?