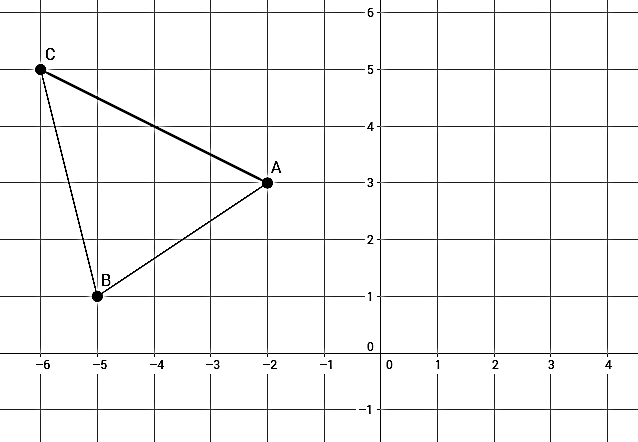
Geometry Topic 3 Review Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
 Hour: \_\_\_\_\_

**Objective: I can find images after a translation and write translation rules.**

1. Translate triangle ABC using the rule (x, y) 🡪 (x + 6, y – 2). Be sure to label the image. Use this to also answer questions 2 and 3.



2. What directions are you moving?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_

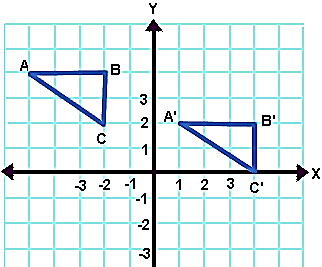
3 What are the coordinates of A’B’C’?

A’ ( )

B’ ( )

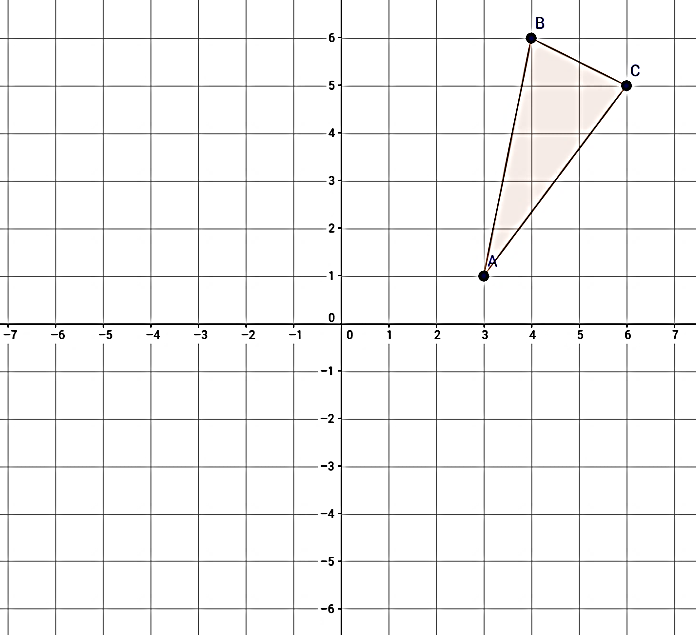
C’ ( )

4. Write a rule that shows how ABC 🡪 A’B’C’.

Rule: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Objective: I can find images after a reflection.**

5. Draw the image reflected across the x-axis. Write the coordinates of the image below.



**y**

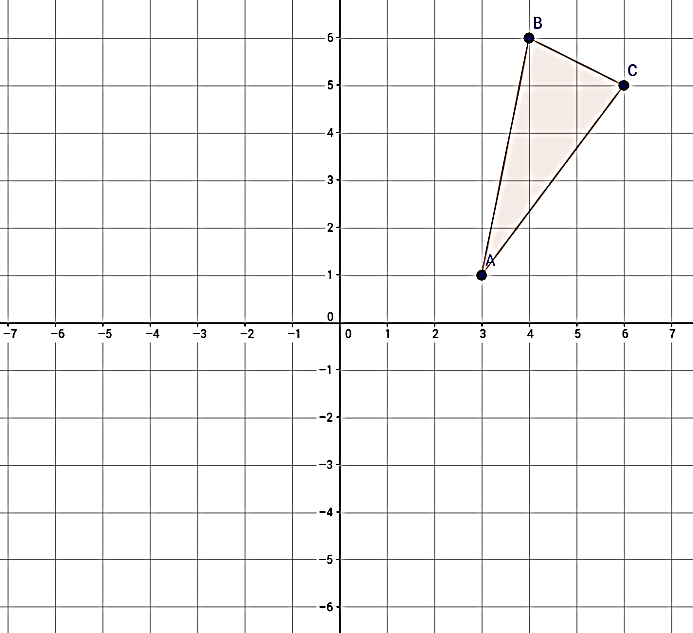
A’ \_\_\_\_\_\_\_\_\_\_

B’ \_\_\_\_\_\_\_\_\_\_

C’ \_\_\_\_\_\_\_\_\_\_

**x**

6. Draw the image reflected across the y-axis. Write the coordinates of the image below.



**y**

A’ \_\_\_\_\_\_\_\_\_\_

B’ \_\_\_\_\_\_\_\_\_\_

C’ \_\_\_\_\_\_\_\_\_\_

**x**

7. If A(-3, 4) 🡪A’ (-3, -4) then A was reflected across the \_\_\_\_\_ axis.

8. If B (2, 1) 🡪 B’(-2, 1), then B was reflected across the \_\_\_ axis.

9. If T has coordinates (-3, 4), what would the coordinates of T’ be after a reflection over

the line y = x?

**Objective : I can rotate images and find degrees and directions of rotations.**

**Use 90CW, 90CCW, or 180 for your amounts and directions of rotation.**

10. Rotate the given points in the direction indicated.

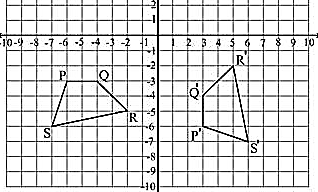
A (-4, 2): Rotate 90 CW: A’ \_\_\_\_\_\_\_\_\_\_

B (3, 5): Rotate 90 CCW: B’ \_\_\_\_\_\_\_\_\_\_\_

C (2, -1): Rotate 180 : C’ \_\_\_\_\_\_\_\_\_\_

Describe how each set of points or figure has been rotated.

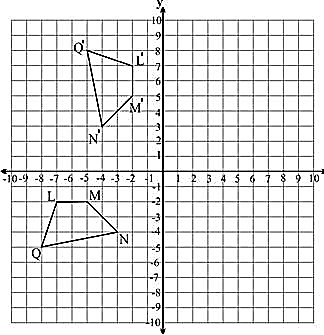
11. P’Q’R’S’ has been rotated \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ from PQRS.



12. M (-4, 3) 🡪 M’ (4, -3)

M’ has been rotated \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ from M.

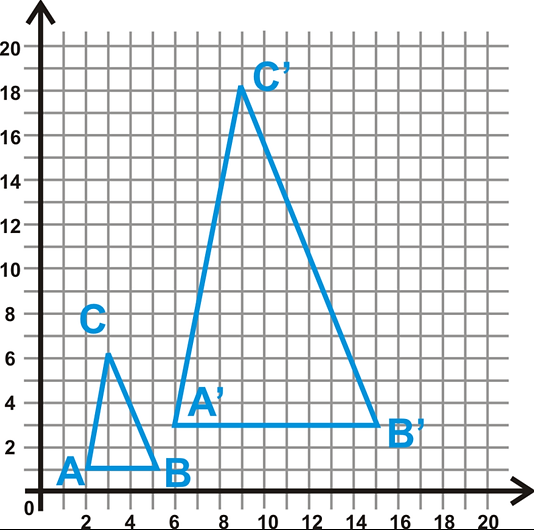
13. Q’L’M’N’ has been rotated \_\_\_\_\_\_\_\_\_\_\_\_\_\_ from QLMN.



**Objective: I can find images after a dilation.**

14. What is the dilation factor from ABC 🡪 A’B’C’? Dilation Factor \_\_\_\_\_\_\_\_\_\_

**y**



**x**

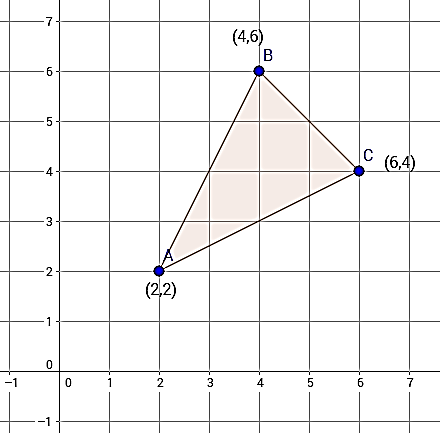
15. Describe if the dilation factor is a reduction, an enlargement, or an isometry.

a) scale factor = 2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b) scale factor = -1 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c) scale factor = 0.8 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**y**

16. Dilate the figure at the right

using a scale factor of .

Identify the coordinates of the image.

A’ \_\_\_\_\_\_\_\_\_\_

B’ \_\_\_\_\_\_\_\_\_\_

C’ \_\_\_\_\_\_\_\_\_\_

**x**

**Objective: I can describe multiple transformations.**

8. Which 2 transformations that took place so that ABCD 🡪 A’’B’’C’’D’’.

If rotation, give degrees and direction.

If translation, give directions and number of units, or write a rule.

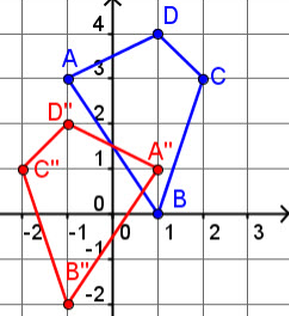
If reflection, tell over which axis.

If dilation, tell what the scale factor is.

Transformation #1: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Transformation #2: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**y**



**x**