

# Assignment 12

Name \_\_\_\_\_

Class \_\_\_\_\_

Date \_\_\_\_\_

Show all work on **graph paper!**

Review problems:

1. STRING:

100% of 250 =

50% of 250 =

5% of 250 =

10% of 250 =

15% of 250 =

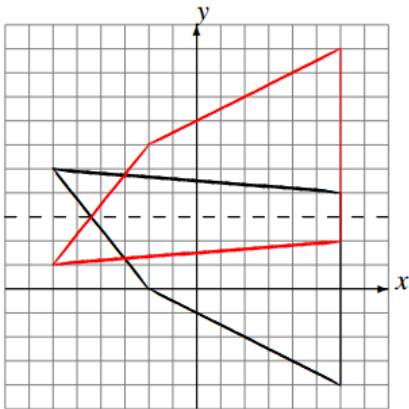
1.5% of 250 =

16.5% of 250 =

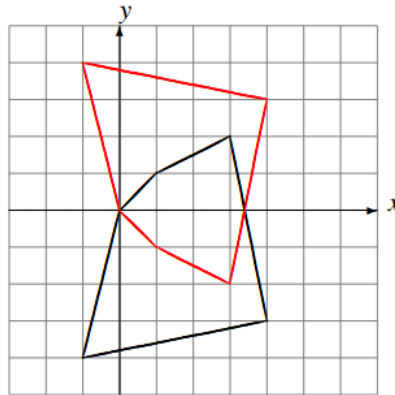
2. Nathaniel is baking cupcakes for his class. He has a recipe that calls for 5 cups of flour and 2.5 cups of sugar per batch. Each batch makes 12 cupcakes. There are 30 students in his class. How much flour and sugar will he need to make enough cupcakes for each student in the class?

IDENTIFY THE TRANSFORMATION. BE AS SPECIFIC AS POSSIBLE.

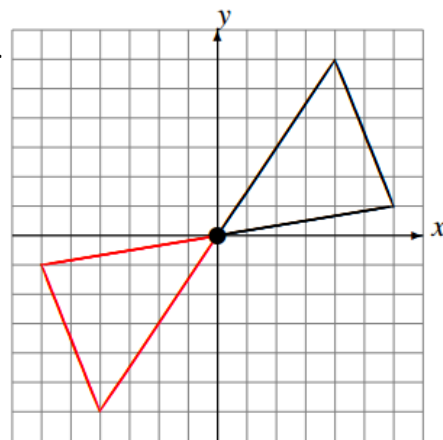
3.



4.



5.



4. Draw and label the following figure HGL on a set of axes. Connect the points to form a triangle:

H: (-4, 7)

G: (0, 7)

L: (-1, 2)

- a) Rotate figure HGL 180 degree clockwise about the origin. Label image  $H'G'L'$  and list the new coordinates.
- b) Now reflect  $H'G'L'$  over the x axis. Label image  $H''G''L''$  and list the new coordinates.
- c) Which is the only quadrant that does not contain a geometric figure ?
5. Jesus was told to reflect point A, with coordinates (-4, -9), over the line  $y = x$ . Explain to Jesus how he can find the coordinates of image  $A'$  **without** graphing the figure.