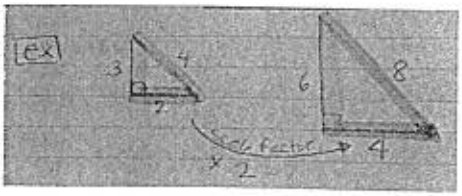
Similar Figures

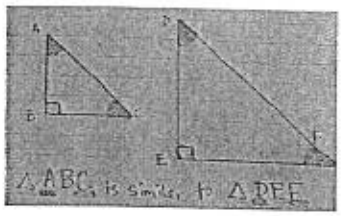
Characteristics:

1.) Same shape but can be a different _____.

2.) Their _____ grow or shrink by the same multiplier, called the _____. This means that all similar figures have _____ corresponding sides.

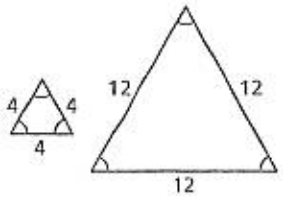


3.) Corresponding _____ are congruent.

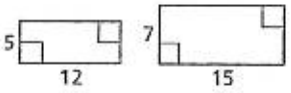


Tell whether the two figures are similar. Explain your reasoning.

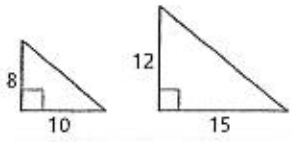
1.



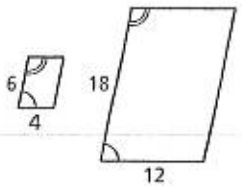
2.



3.

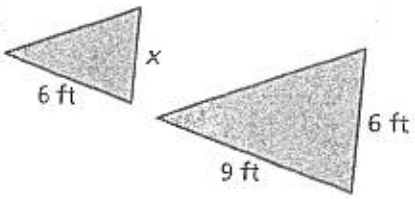


4.

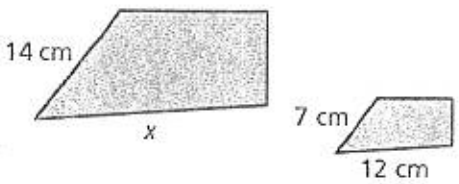


The figures are similar. Find x.

2.



3.



Name:_____ Date:_____

Dilations/Translations Worksheet

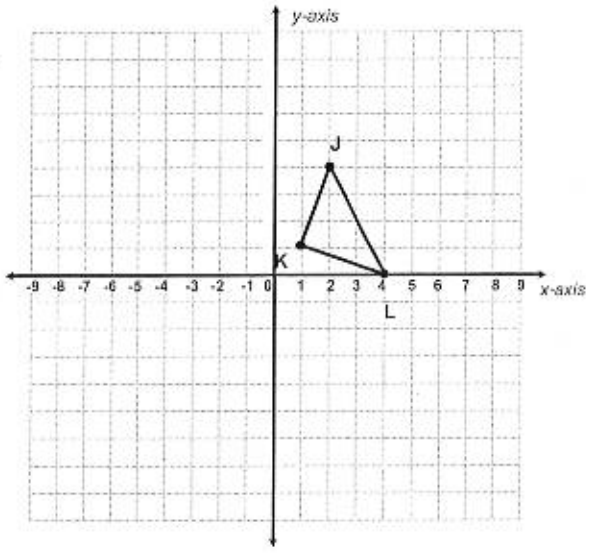
Directions: Answer the following questions to the best of your ability. For the y-axis, use the same scaling as the x-axis

1. In Math, the word dilate means to _____ or _____ a figure.

2. If a scale factor is less than 1, then your figure gets _____.

3. If a scale factor is greater than 1, then your figure gets _____.

4.



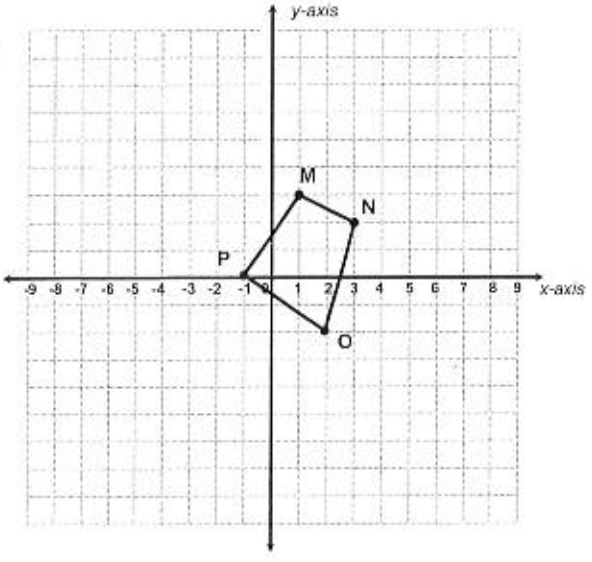
Graph the dilated image of triangle JKL using a scale factor of 2 and (0,0) as the center of dilation.

J: _____ J': _____

K: _____ K': _____

L: _____ L': _____

5.



Graph the dilated image of quadrilateral MNOP using a scale factor of 3 and the origin as the center of dilation.

M: _____ M': _____

N: _____ N': _____

O: _____ O': _____

P: _____ P': _____