Geometry 1-2 Dilation Review-(G.SRT.1, G.SRT.2)
For the following problems, find a) the center of the dilation and b) the scale factor.
1.


## Center of Dilation

Scale Factor $\qquad$
3.


Center of Dilation $\qquad$
Scale Factor


Center of Dilation
Scale Factor


Center of Dilation
Scale Factor

For the following problems, determine whether the two figures are similar by a) verifying that corresponding angles are congruent and $\mathfrak{b}$ ) verifying that corresponding sides are proportional.
If they are similar, write a similarity statement AND the scale factor (based on how you write your similarity statement).


Corresponding Angles congruence statements

Corresponding Sides Proportional?

Similarity Statement (if applicable)

Scale Factor (if applicable) $\qquad$
6. Corresponding Angles congruence statements

Scale Factor (if applicable) $\qquad$
7. Corresponding Angles congruence statements


Similarity Statement (if applicable)

Scale Factor (if applicable) $\qquad$
8. Sketch the dilation of $\triangle A B C$ using a scale factor of 3 if the dilation point is at the origin. After graphing the image, verify that the corresponding sides of $\triangle A B C$ and $\triangle A^{\prime} B^{\prime} C^{\prime}$ are both parallel and proportional.


Verify sides are parallel:

Verify sides are proportional:
9. Sketch the dilation of $\triangle A B C$ using a scale factor of $\frac{1}{3}$ if the dilation point is at point $B$. After graphing the image, verify that the corresponding sides of $\triangle A B C$ and $\triangle A^{\prime} B^{\prime} C^{\prime}$ are both parallel and proportional.


Verify sides are parallel:

Verify sides are proportional:
10. Determine the sequence of similarity transformations that maps $\triangle B O L$ onto $\triangle M A L$.

$\qquad$ followed by

What is the scale factor? $\qquad$
11. Determine the sequence of similarity transformations that maps $\triangle F G H$ onto $\Delta F^{\prime} G^{\prime} H^{\prime}$

$\qquad$ followed by
12. Determine the sequence of similarity transformations that maps $\Delta K G H$ onto $\Delta K^{\prime} G^{\prime} H^{\prime}$

followed by

What is the scale factor?

