Name: $\qquad$ Date: $\qquad$ Period: A B C D E F

## Module 1: Topic 2 Lesson 1 Assignment-Pinch-Zoom Geometry

VOCABULARY----For questions 1-4, complete the following sentences with the correct term. Use your book to help you.

1. A DILATION is a transformation that produces a figure that is the same $\qquad$ as the original figure, but not necessarily the same $\qquad$ . (page M1-112)
2. The $\qquad$
$\qquad$ is the ratio of the distance of the new figure from the center of dilation to the distance of the original figure. (page M1-112)
3. When a scale factor is greater than 1 , the new figure is called an $\qquad$ .
(page M1-112)
4. When a scale factor is less than 1 , the new figure is called a $\qquad$ .
(page M1-114)
5. When you dilate a figure, you create a $\qquad$ figure. When two figures are similar, the ratios of their side lengths are equal. (page M1-117)
PRACTICE----For questions 6 \& 7, dilate each triangle with $P$ as the center of dilation and the given scale factor.
6. Scale factor of 3 .

7. Scale factor of $1 / 4$


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8. The triangles in each pair are similar. Identify the congruent corresponding angles and the corresponding proportional side lengths.
a. Triangle $A B C$ is similar to Triangle $A^{\prime} B^{\prime} C^{\prime}$


## Corresponding Angle Pairs

Corresponding Side Lengths
$\angle \_\cong \angle$
$\angle \ldots \cong$ $\qquad$
$\qquad$
$\qquad$
9. Triangle DEF is similar to Triangle $D^{\prime} E^{\prime} F^{\prime}$.
a. Using 3 different colored highlighters, show the corresponding side lengths of TRIANGLE DEF and TRIANGLE D' E' $\mathrm{F}^{\prime}$.
b. Is this dilation a/an: (circle one)
ENLARGEMENT or REDUCTION

How do you know? $\qquad$

c. What is the scale factor of the dilation. (show measurements and ratio).

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