

SECTION 4.5: DILATIONS

Homework: _____

Learning Targets:

- 4g. Understanding of which transformations create similar figures.
- 4h. Understanding how to find measures and solve variables when given similar transformations.

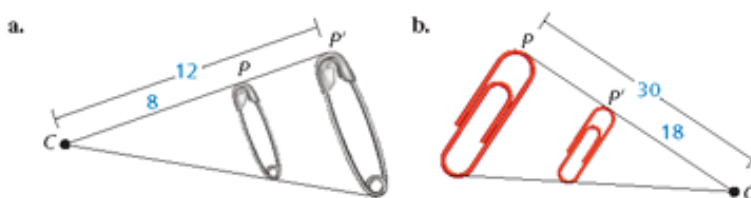
Vocabulary:

Center of Dilation
Reduction

Dilation
Scale Factor

Enlargement

Determine whether each dilation is an enlargement or reduction. Find the scale factor.



Given the points A(2, -3), B(-4, 6), and C(12, 15) find the coordinates for each image after the given dilations. Also, determine if each dilation is an enlargement or reduction.

1. Dilation; $k = 2$

2. Dilation; $k = \frac{1}{3}$