

Name Key

Hour _____

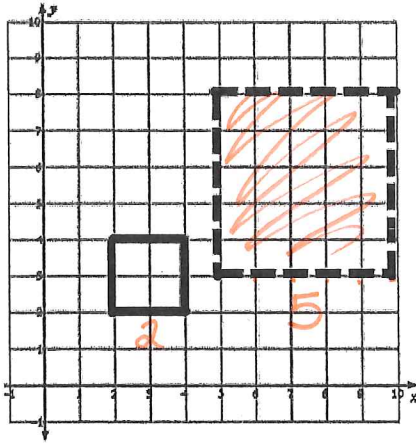
Dilation and Perimeter Ratio Warm Up

1. Use the dilation below to answer the following questions. The dotted figure is the dilation image.

a) Find the scale factor for the dilation below with the center at the origin.

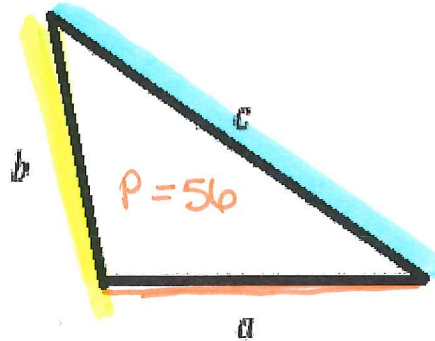
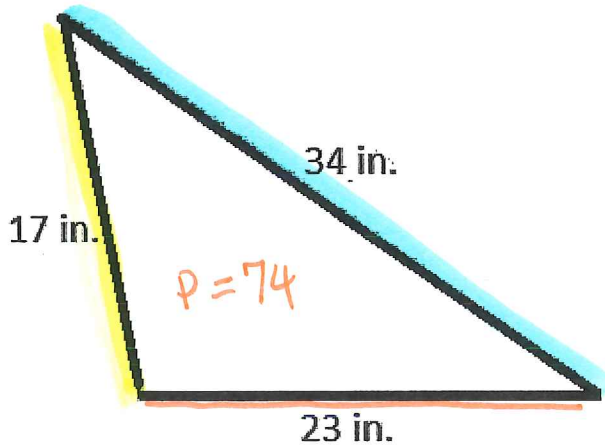
$\frac{\text{dot}}{\text{solid}} \text{ SF} = \underline{\underline{\frac{5}{2}}}$

b) Determine whether the dilation is an enlargement, reduction, or congruent transformation.



Classification: enlargement

2. Find a , b , and c if the two triangles below are similar and the smaller triangle has a perimeter of 56 inches. Round answers to the nearest tenth if necessary.



Find a
 $\frac{a}{23} = \frac{56}{74}$

$74a = 1288$

$a = 17.4 \text{ in}$

Find b
 $\frac{b}{17} = \frac{56}{74}$

$74b = 952$

$b = 12.9 \text{ in}$

Find c

$\frac{c}{34} = \frac{56}{74}$

$74c = 1904$

$c = 25.7 \text{ in}$

$a = 17.4 \text{ in}$

$b = 12.9 \text{ in}$

$c = 25.7 \text{ in}$

Name _____

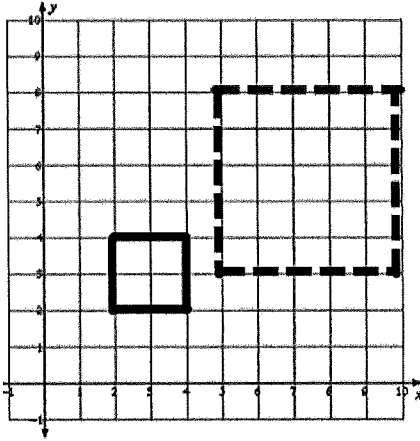
Hour _____

Dilation and Perimeter Ratio Warm Up

1. Use the dilation below to answer the following questions. The dotted figure is the dilation image.
- a) Find the scale factor for the dilation below with the center at the origin.

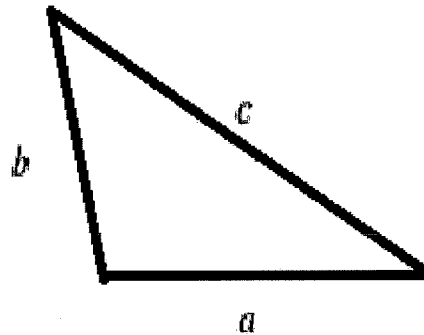
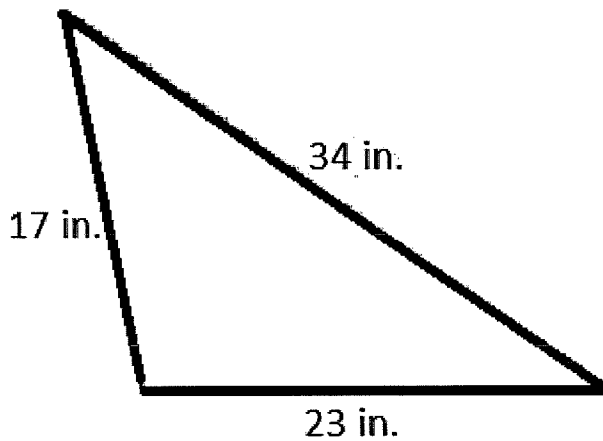
SF = _____

- b) Determine whether the dilation is an enlargement, reduction, or congruent transformation.



Classification: _____

2. Find a , b , and c if the two triangles below are similar and the smaller triangle has a perimeter of 56 inches. Round answers to the nearest tenth if necessary.



$a =$ _____

$b =$ _____

$c =$ _____