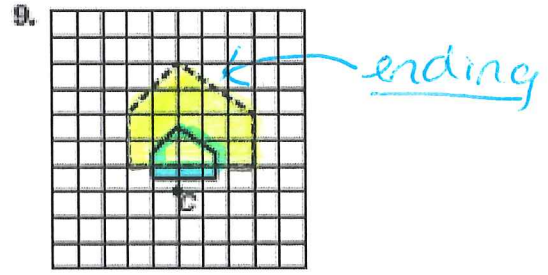
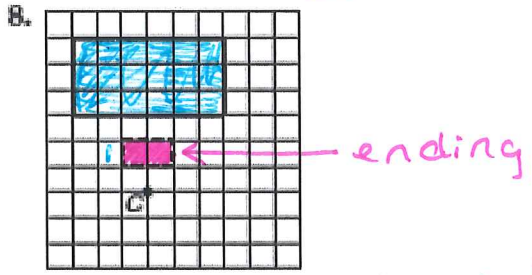


Dilations

Name: Key

Pre-image = start

Determine the scale factor for each dilation with center C. Determine whether the dilation is an enlargement, reduction, or congruence transformation. The dotted figure is the dilation image.

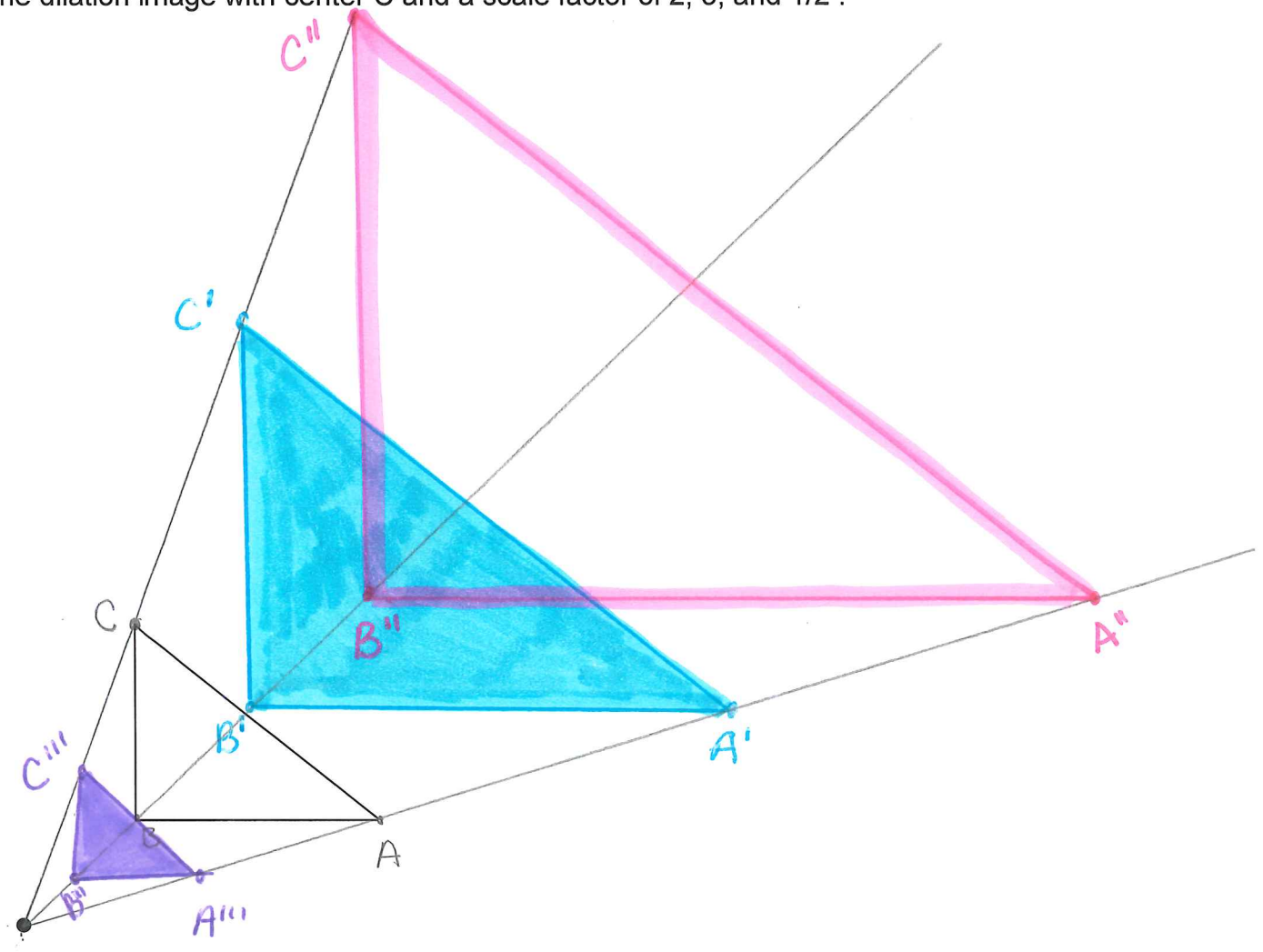


Going from blue to pink. Enlargement  
 \* Reduction

$$= \frac{1}{3} \quad \boxed{SF = \frac{1}{3}}$$

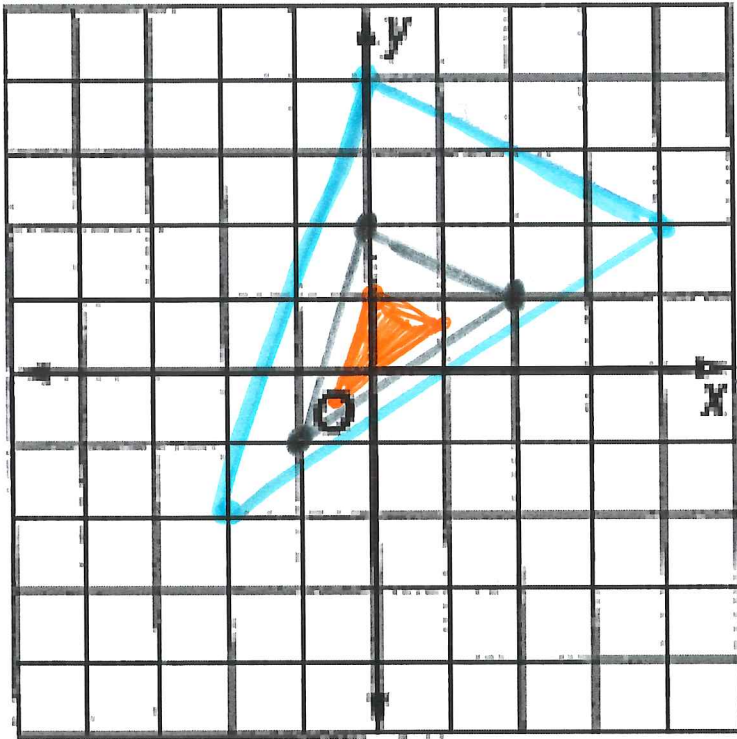
$$SF = \frac{5}{2.5} = \boxed{2 = SF}$$

Draw the dilation image with center C and a scale factor of 2, 3, and 1/2 .



**COORDINATE GEOMETRY** Find the image of each polygon, given the vertices, after a dilation centered at the origin with a **scale factor of 2**. Then graph a dilation centered at the origin with a scale factor of  $\frac{1}{2}$ .

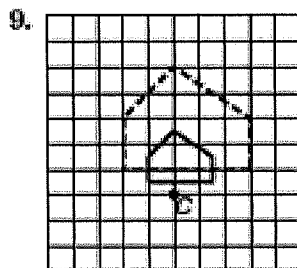
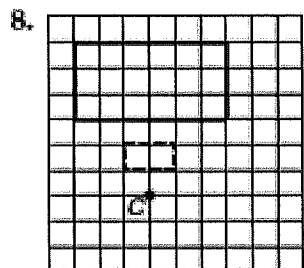
$Q(-1, -1)$ ,  $R(0, 2)$ ,  $S(2, 1)$



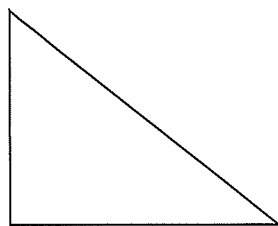
# Dilations

Name: \_\_\_\_\_

Determine the scale factor for each dilation with center  $C$ . Determine whether the dilation is an *enlargement*, *reduction*, or *congruence transformation*. The dotted figure is the dilation image.



Draw the dilation image with center  $C$  and a scale factor of 2, 3, and  $1/2$ .



**COORDINATE GEOMETRY** Find the image of each polygon, given the vertices, after a dilation centered at the origin with a scale factor of 2. Then graph a dilation centered at the origin with a scale factor of  $\frac{1}{2}$ .

$Q(-1, -1), R(0, 2), S(2, 1)$

