HWK #5 will be due on Tuesday.

you'll need some graph paper.

Given each scale factor tell if it represents a reduction or an enlargement.

3. 8:7 Enlargement 4.
$$\frac{12}{17}$$
 Reduction

Dilation: When the preimage is enlarged or

reduced in size to create the image.

Sec 9-5 (they are similar figures)

Scale Factor: The ratio of a measure in the

image to a corresponding measure in the preimage.

Scale Factor =
$$\frac{Image}{Preimage}$$
 = $\frac{After}{Before}$

Center of Dilation: Point of intersection of all lines that

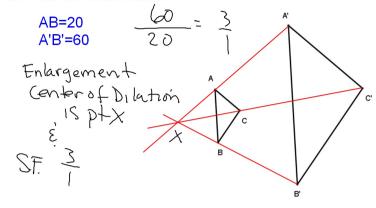
connect corresponding vertices of the

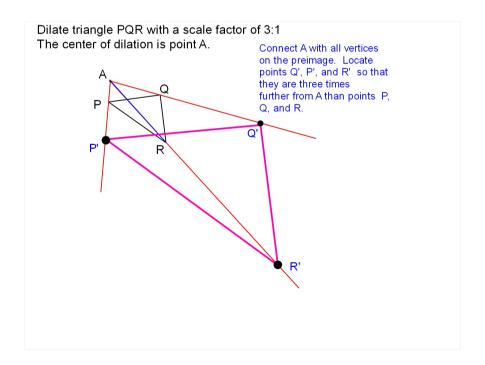
preimage and image.

To describe a dilation:

- State if it's a reduction or enlargement
- Give center of dilation
- Give scale factor

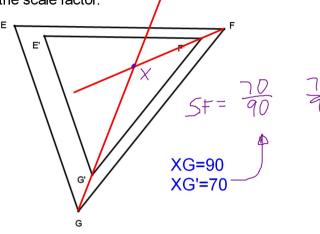
- 1. Find the Center of Dilation and label it pt X.
- 2. Find the scale factor.

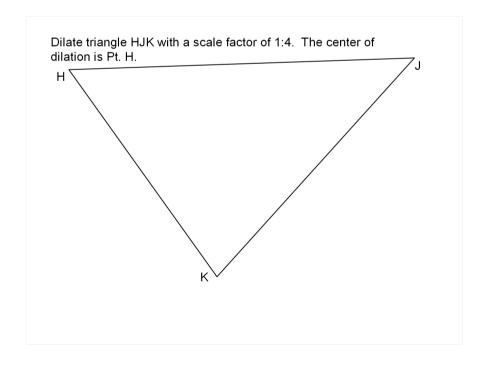




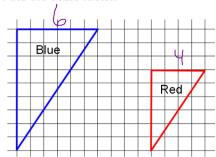


2. Find the scale factor.





The blue figure is the image and the red figure is the preimage. Find the scale factor.



The blue figure is the image and the red figure is the preimage. Describe the dilation.

