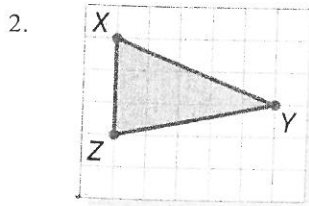


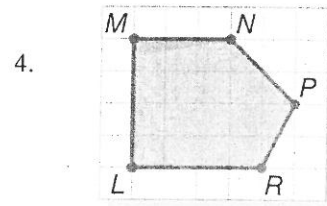
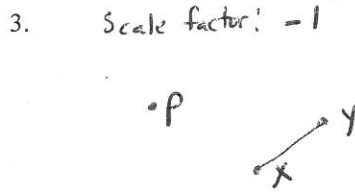
1. Is the transformation a dilation?



#2-7, Dilate each figure with the given dilation factor and center of dilation.



center: X, scale factor: $\frac{1}{2}$

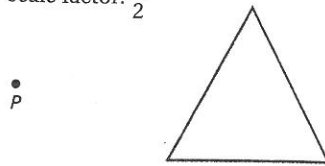


center: L, scale factor: $\frac{3}{4}$

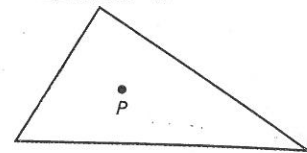
5. scale factor: 3



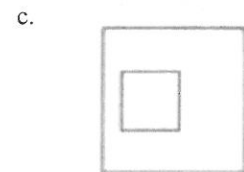
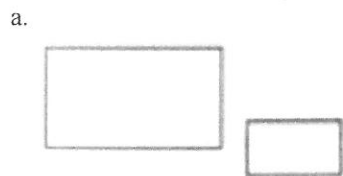
6. scale factor: $\frac{1}{2}$



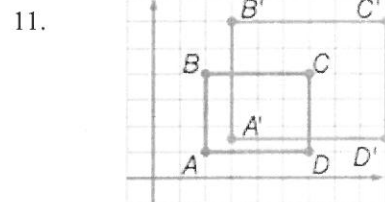
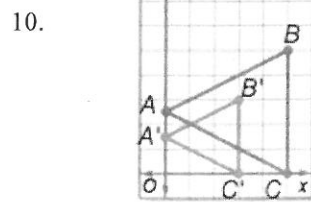
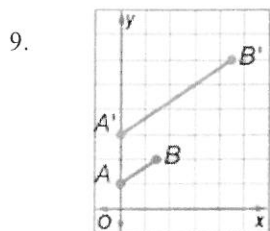
7. scale factor: -2



#8, Find the center of dilation.



#9-11, With the given information, determine the dilation factor.



12. Sam designed a 6 inch by 7.5 inch logo for her school. The logo is to be reduced by a scale factor of $\frac{1}{3}$ to make a face tattoo. What are the dimensions of the tattoo?

13. An overhead projector transforms an image on a transparency so that is shown enlarged by a scale factor of 3.5 on a screen. The original image is 3 in. by 5.5 in. How big will it show on the screen?