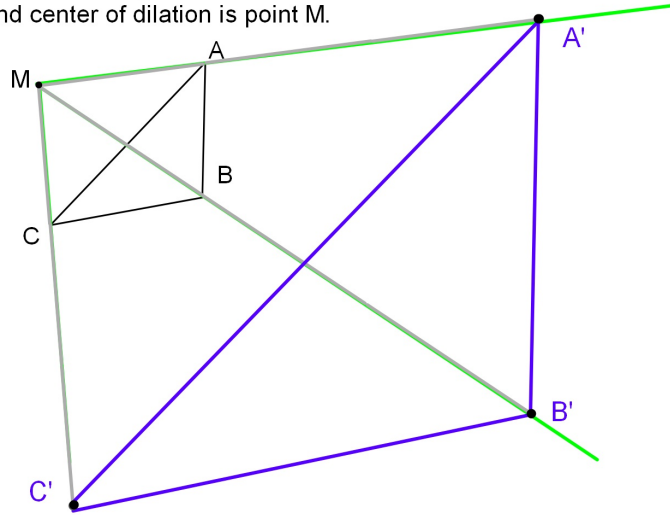
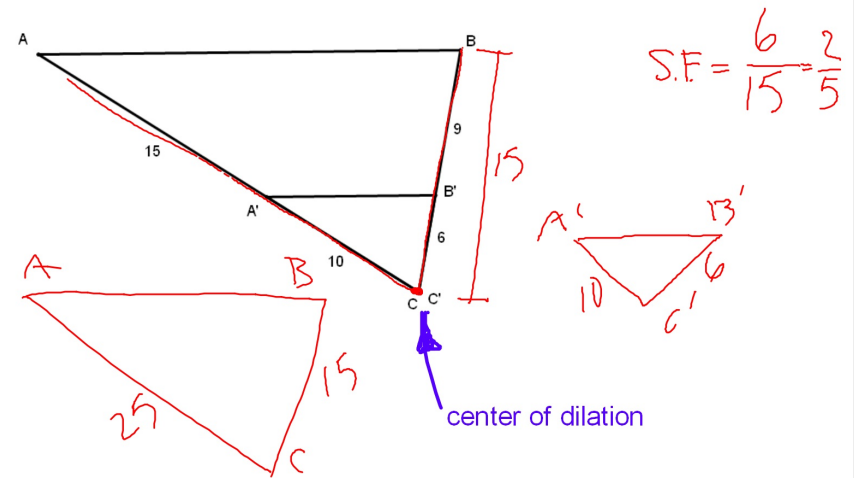


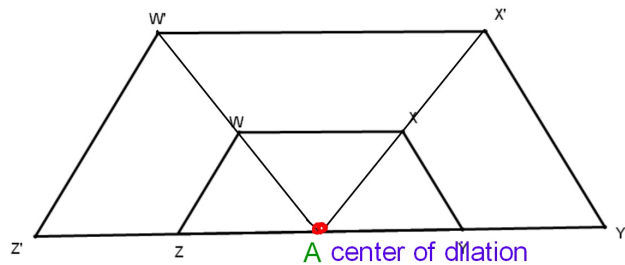
1. Dilate triangle ABC with a scale factor of 3:1 and center of dilation is point M.



2. Find the center of dilation and the scale factor.

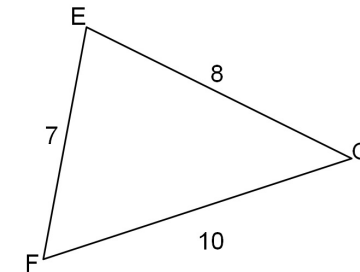


3. Find the center of dilation and the scale factor:



$$SF = \frac{A'W'}{AW} = \frac{46}{23} = 2:1$$

4. Triangle EFG is dilated with a scale factor of 3:2. Find the lengths of the sides of triangle E'F'G'.



$$E'F' = 12 \quad F'G' = 15 \quad G'E' = 10.5$$

$$\frac{3}{2} = \frac{x}{8}$$

$$\frac{3}{2} = \frac{x}{10}$$

$$\frac{3}{2} = \frac{x}{7}$$