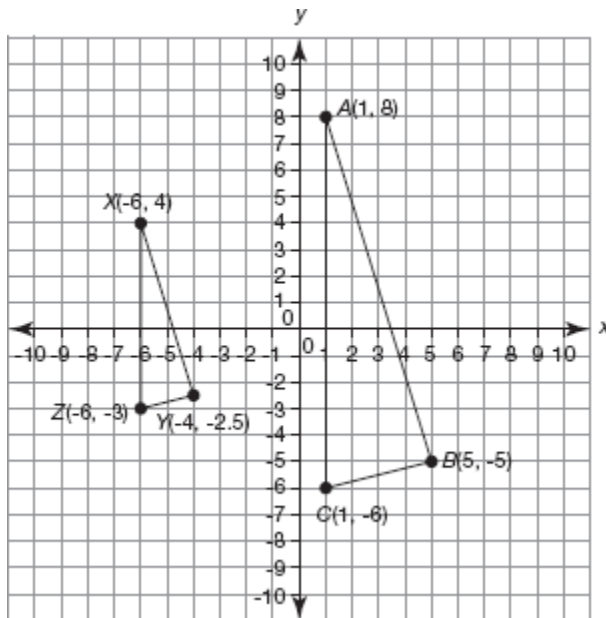


Name: _____

Period: _____

Similar Triangles on the Coordinate Plane

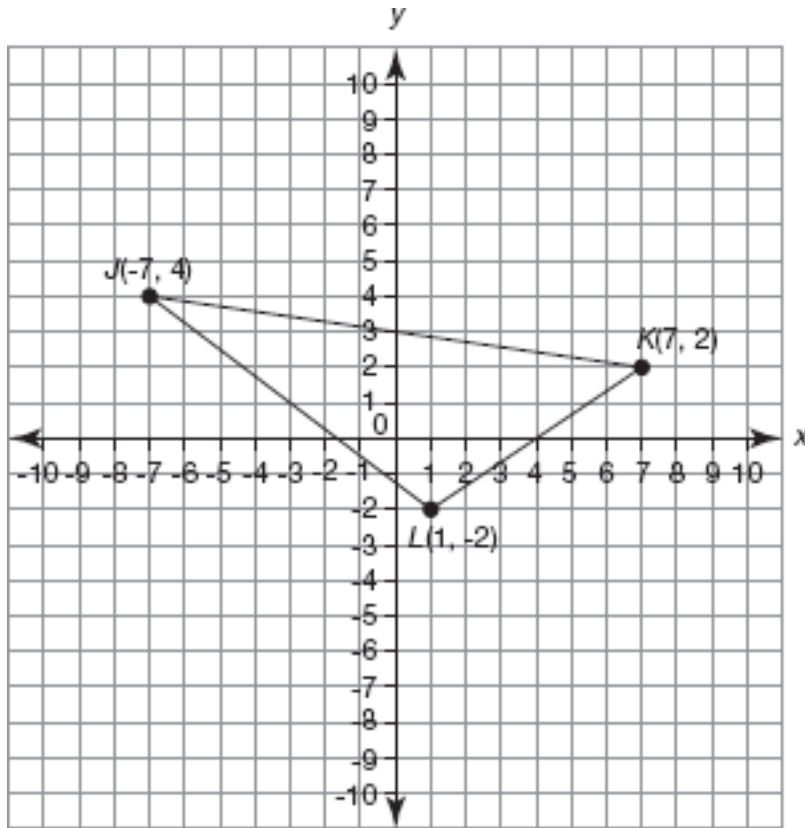
1. Triangle XYZ is the image that resulted from the dilation of $\triangle ABC$.



- a. Use the SSS Similarity Theorem to determine whether $\triangle XYZ$ is similar to $\triangle ABC$.
- b. What scale factor was used?
- c. Is the dilation an enlargement or reduction? Explain your reasoning.
2. Dilate $\triangle JKL$ shown using a scale factor of $\frac{1}{2}$ and the origin as the center of dilation to form $\triangle RST$.

Name: _____

Period: _____



- a. What are the coordinates of the dilated image?
- b. How did you determine the coordinates of the dilated image?
- c. Is the dilation an enlargement or reduction? Explain your reasoning.
- d. Use the SSS Similarity Theorem to verify $\triangle JKL$ is similar to triangle $\triangle RST$.