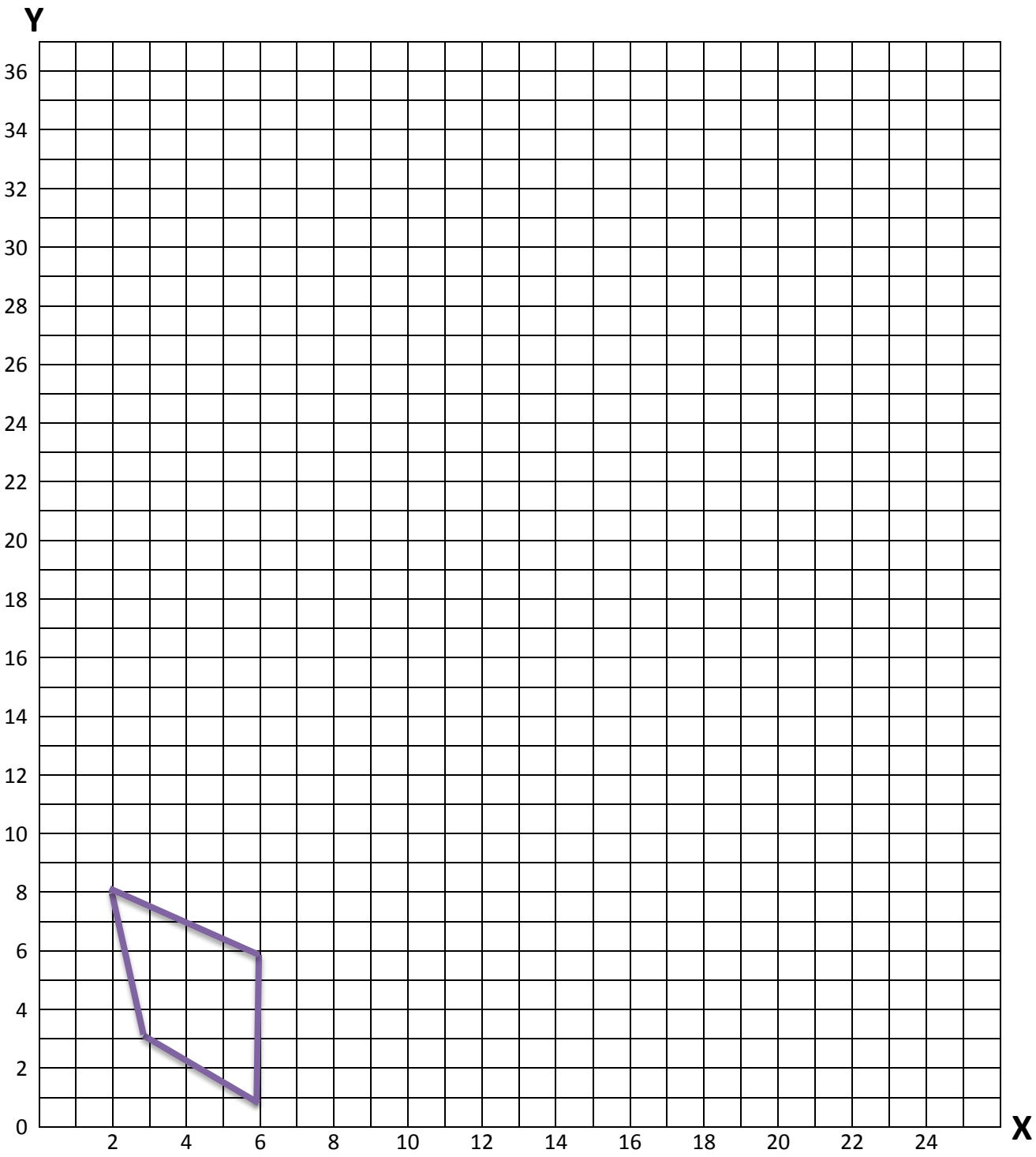
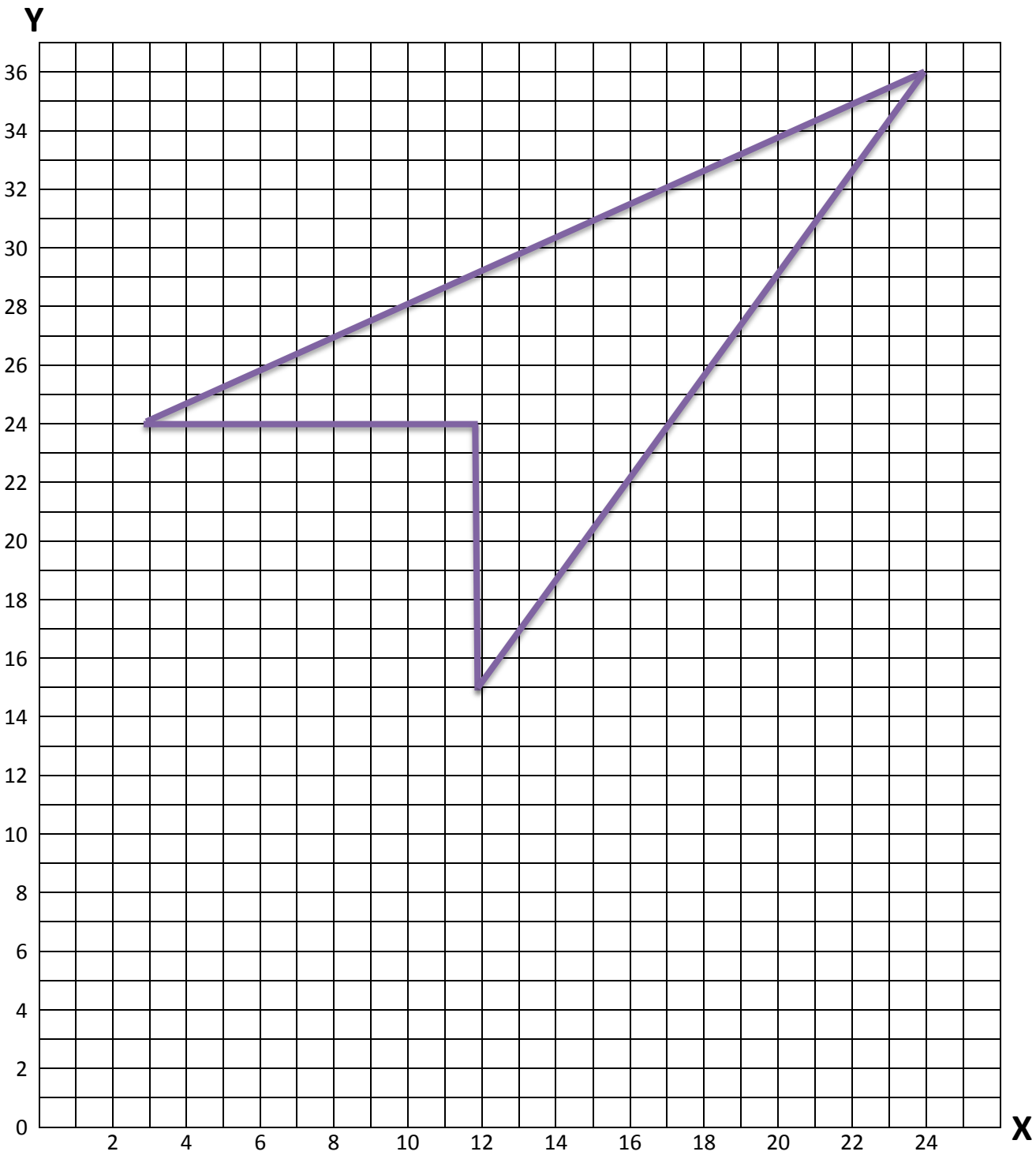
DILATIONS PRACTICE WORKSHEET

Name: Date:

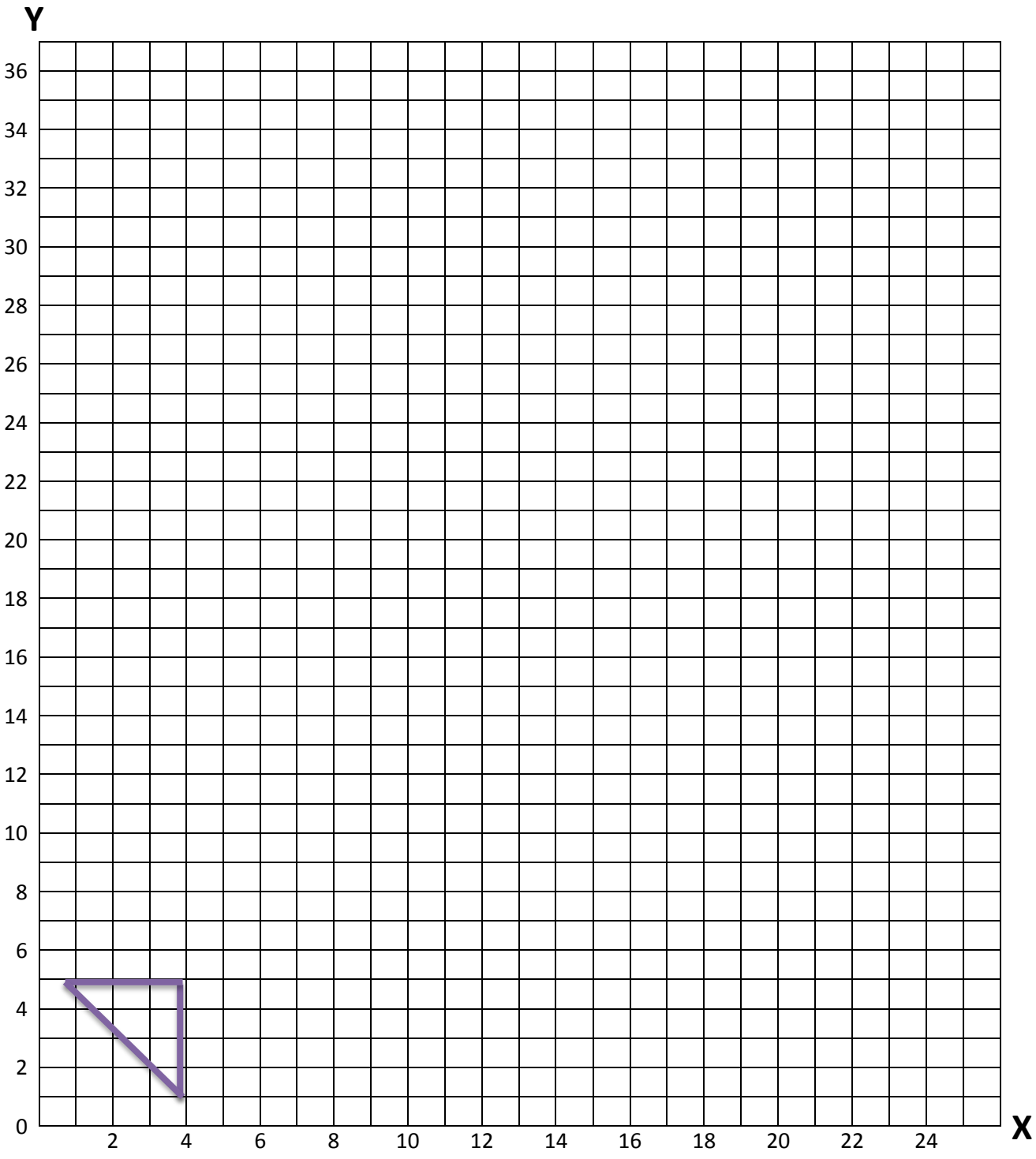
1. Construct a dilation of the image with a scale factor of 4. Label the coordinates of the vertices.



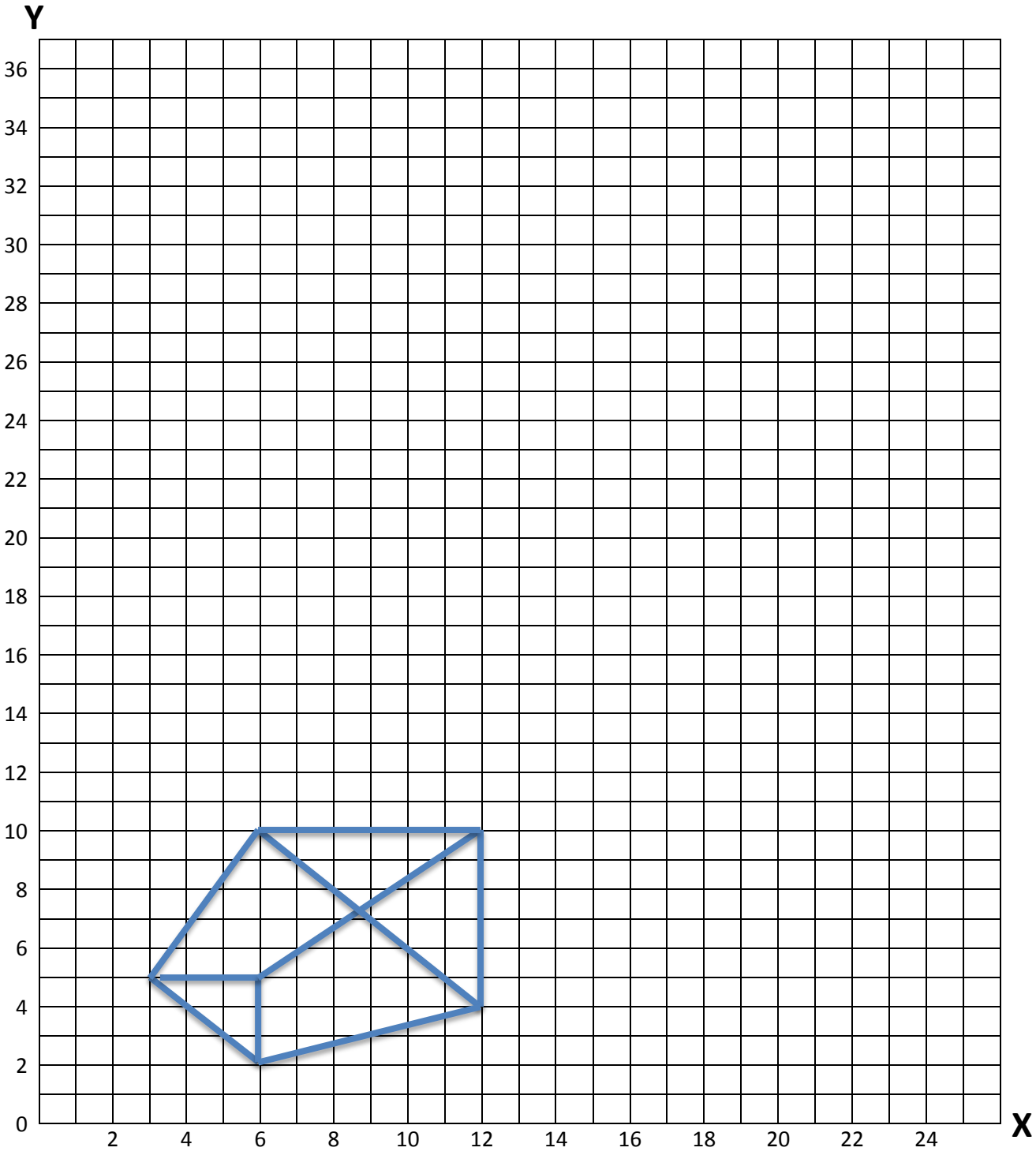
2. Construct a dilation of the image with a scale factor of $\frac{1}{3}$. Label the coordinates of the vertices.



3. Construct the dilated hypotenuse of the given triangle with a scale factor of 5. Indicate the length of the enlarged hypotenuse and label the coordinates of the endpoints.



4. Enlarge the pentagon and its interior segments by a scale factor of 2. Then, enlarge it again by a scale factor of 4.



5. On a map, the legend indicates that 1 inch represents 10 feet. What scale factor was used to make the map?

6. How can you use the scale factor to tell if a dilation will result in reduction or enlargement?

Choose a job task involving the use of dilations. Write at least a paragraph to describe how dilations are used to perform that task. Be prepared to discuss your answer. Use additional paper if needed.