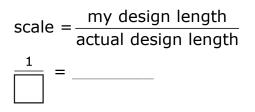
BLM 4-8

Section 4.2 Math Link

This worksheet will help you with the Math Link on page 145.

- **1.** For the enlargement or reduction of the design you drew for the Math Link on page 138, determine the scale factor. Show your work.
 - To determine the scale factor,
 - Measure the length of your design.
 - Measure the length of the actual design.
 - Set up a proportion for the scale and the measurements.



The scale factor is _____.

- **2.** Choose a new feature to add to your design. You might consider a shape such as a triangle, a square, or a circle.
 - a) Sketch your new feature here. Then, draw it on your scale diagram.

- **b)** Calculate the actual dimensions of the new feature by following these steps.
 - Measure the dimensions of the feature you drew.
 - Use the scale factor you determined in #1 to calculate the actual dimensions.
- **3.** Explain how you know the scale diagram is proportional to the actual design. **Hint:** Use equal ratios.