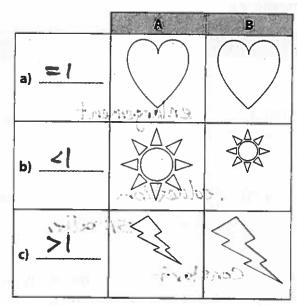
Unit 10/11: Scale Factors, Similarity Date:

Data Analysis

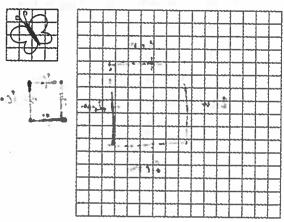
4.1 Enlargements and Reductions Teacher Key MathLinks 9, pages 130-138 **Key Ideas Review** Choose from the following terms to complete #1. constant enlargement larger reduction scale factor smaller 1. a) A scale factor greater than 1 indicates a(n) enlargement, which results in an image that is the same shape but proportionally than the original. b) A scale factor less than 1 indicates a(n) reduction, which results in an image that is the same shape but proportionally _______ the original is the Constant amount by which all c) The Scale dimensions of an object are enlarged or reduced in a scale drawing. **Check Your Understanding** 2. Draw an enlargement of each figure 3. Draw a reduction of each letter using a using a scale factor of 2. scale factor of 0.5. a) a) Enlagement b) b)



- 4. For each image in column A, state whether the image in column B has a scale factor
 - greater than 1
 - less than 1
 - equal to 1



a) Draw an enlargement of the butterfly using a scale factor of 4.



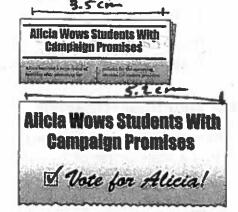
 b) Explain how you know that your drawing is correct. 6. Draw an image of the flag of Greece

Date:

6. Draw an image of the flag of Greece using a scale factor of $\frac{1}{4}$. 4 Have



7. Alicia copied a headline from the school newspaper and included it on her election poster.



a) Is the headline on the poster an enlargement or a reduction of the headline in the newspaper?

Enlagement.

b) What is the scale factor? How do you know?

original x = 5.2 $3.5 \times 5.5 = 5.2$ 3.5×3.5