Date:	Key
,	

Enlargements and Reductions

MathLinks 9, pages 130-138

Key Ideas Review

Choose from the following terms to complete #1.

scale factor enlargement larger reduction constant

1. a) A scale factor greater than 1 indicates a(n) enlargement, which results in an image that is the same shape but proportionally arger than the original.

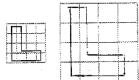
b) A scale factor less than 1 indicates a(n) reduction

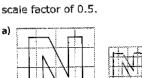
c) The Scale Factor is the Constant amount by which all dimensions of an object are enlarged or reduced in a scale drawing.

Check Your Understanding

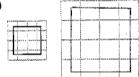
the original.

2. Draw an enlargement of each figure using a scale factor of 2.





3. Draw a reduction of each letter using a

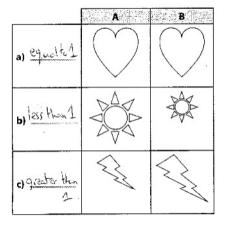






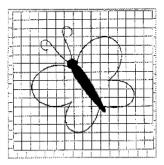
Date: _____

- **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.

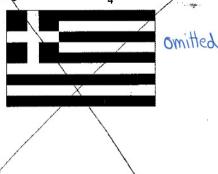




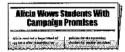
 Explain how you know that your drawing is correct.

multiplied each measurement by 4

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



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



Alicia Wows Students With Campaign Promises

☑ Vote for Alicia!

- a) Is the headline on the poster an enlargement or a reduction of the headline in the newspaper?
- b) What is the scale factor? How do you know?

approximately 1:2.3

answers will vary

1:2

to

1:2.5