Practice: Enlargements and Reductions

Key Ideas Review

Choose from the following terms to complete #1.

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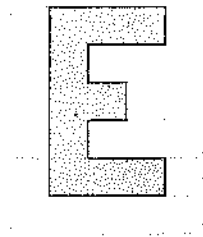
1. a) A scale factor greater than 1 indicates a(n) .... , which
   results in an image that is the same shape but proportionally

   _____ than the original.

   b) A scale factor less than 1 indicates a(n) _____ , which results in

   an image that is the same shape but proportionally _____ than
   the original.
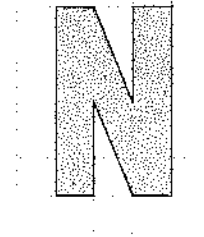
   c) The _____ is the _____ amount by which all
   dimensions of an object are enlarged or reduced in a scale drawing.

For #2 to 4, and 6 use grid paper.

2. a) Use a scale factor of 2 to enlarge
   the letter.

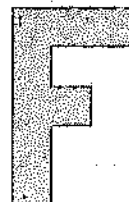   b) Use a scale factor of 4 to enlarge
   the letter.

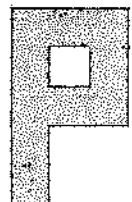3. Draw an enlargement of the
   flag using a scale factor of 3.

   Czech Republic

4. Draw an image with dimensions that
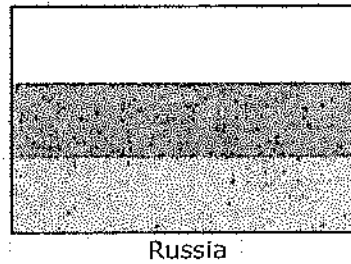   are half as large as each letter.

   a)

   b)

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5. 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	B
a)		
b)		
c)		

6. Draw a reduction of the flag using a scale factor of 0.25.

Russia

7. For the second image, is the scale factor equal to 1? greater than 1? less than 1? Explain how you know.

8. Explain how you could determine if Figure B is an accurate enlargement of Figure A.

Figure A   Figure B