Name:

1. What does a scale factor smaller than 1 represent?

2. The following shape is enlarged as shown below, what is the scale factor of the enlargement?

$$\frac{10}{5} = 0$$

3. A drawing is reduced using a scale factor of 0.4. If the original drawing was 20 inches by 1 foot, what are the dimensions of the new drawing?

$$20' \times 0.4 = 8''$$
 $1' \times 0.4 = 0.4'$
 08
 $8'' 6 y 0.4'$
 $8'' 6 y 4.8''$
 $12'' \times 0.4 = 4.8''$

- 4. A 10" x 10" picture is enlarged to be 60% longer and wider.
 - a) What will the enlarged dimensions be?

Find 60% of 10
$$\rightarrow$$
 $\frac{60}{100} = \frac{x}{10}$ $x = 6$ "

So 60% more would be $10'' + 6'' = 16$ "

 $16'' \times 16''$

b) What will the scale factor of the enlargement be?

Scole fector =
$$\frac{\Lambda ew}{\sigma Id} = \frac{16}{10} = (1.6)$$

5. A 15 inch by 15 inch picture is to be reduced so that 4 identical copies will fit on a single piece of 11.5 inch by 8 inch paper, what scale factor should be used?