**Determine whether the dilation from Figure A to figure B is a reduction or an enlargement. Then find the scale factor, k.**

1.

REDUCTION or ENLARGEMENT

k = \_\_\_\_\_

2.

REDUCTION or ENLARGEMENT

k = \_\_\_\_\_

**Draw the dilation given the scale factor.**

3. k=1/4



4. k=1.5

**Lesson 1: Practice**

5. Graph the dilated image of quad. MNOP using a scale factor of 3.

M’\_\_\_\_\_\_ N’\_\_\_\_\_\_\_

O’\_\_\_\_\_\_ P’\_\_\_\_\_\_\_

6. Graph the dilated image of quadrilateral MNOP using a scale factor of 1/3



M’\_\_\_\_\_\_ N’\_\_\_\_\_\_\_

O’\_\_\_\_\_\_ P’\_\_\_\_\_\_\_

1. Graph the dilated image of triangle XYZ using the scale factor of 5/2.

X’\_\_\_\_\_\_ y’\_\_\_\_\_\_ Z’\_\_\_\_\_\_

A and B are endpoint of$\overbar{AB}$. Complete the coordinates of C and D, the endpoints of the image after the dilations of scale factor k.

1. A(1, 1), B(3, 1), k=2

(x, y) (2x, 2y) A (1, 1) C(\_\_\_\_,\_\_\_\_)

 B (3, 1) D(\_\_\_\_, \_\_\_\_)

1. A(4, 4), B(8, 12), k=$\frac{3}{4}$

(x, y) ($\frac{3}{4}x, \frac{3}{4}y)$ A (4, 4) C(\_\_\_\_,\_\_\_\_)

 B(8, 12) D(\_\_\_,\_\_\_\_)