

Dilations Practice Worksheet

Name _____ Date _____

- A dilation is NOT an isometry.
- Dilations are the stretch or shrink of an image.
- Dilations change the size of an image, but not the shape.
- Multiply the coordinates by the given scale factor.

Use the given scale factor to find the coordinates of the vertices of the image of the polygon.

1. $K = \frac{1}{2}$

$$J(-5, 3) \rightarrow J'(-2.5, 1.5)$$

$$K(2, 3) \rightarrow K'(1, 1.5)$$

$$L(2, -3) \rightarrow L'(1, -1.5)$$

$$M(-5, -3) \rightarrow M'(-2.5, -1.5)$$

2. $K = 2$

$$P(3, 5) \rightarrow P'(6, 10)$$

$$Q(4, 0) \rightarrow Q'(8, 0)$$

$$R(1, 1) \rightarrow R'(2, 2)$$

3. $K = 4$

$$S(-5, 2) \rightarrow S'(-20, 8)$$

$$T(-3, 4) \rightarrow T'(-12, 16)$$

$$U(-1, 1) \rightarrow U'(-4, 4)$$

$$V(-3, -1) \rightarrow V'(-12, -4)$$

