Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Dilations**

* In a dilation, we are just \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the image.
	+ Dilations are NOT an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
	+ When we dilate an image, the \_\_\_\_\_\_\_\_ change, the \_\_\_\_\_\_\_\_ do not.
	+ This is the one transformation where the pre- image and image are \_\_\_\_\_\_\_\_\_\_\_\_\_, but not \_\_\_\_\_\_\_\_\_\_\_\_\_.

**Scale Factor:**

* We use “k” to represent \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_.
* We \_\_\_\_\_\_\_\_\_\_\_ by k to find the image.

|  |  |  |
| --- | --- | --- |
| **If…** | **We call it…** | **The shape gets…** |
| 0 < k < 1 |  |  |
| k = 1 |  |  |
| k > 1 |  |  |

Determine if the scale factor represents a reduction, enlargement, or congruence.

1. k = 1/3 b. k = 2.5 c. k = 50% d. k = 200%
2. Dilate the image by k=2.

****

1. Dilate the image by k= ½.

****

1. Dilate the image by k = 2.

1. Dilate the image by k = 1/5