

Name _____ Date _____

Shadow Puppets Dilations

Vocabulary

Define each term in your own words.

1. ratio

2. dilation

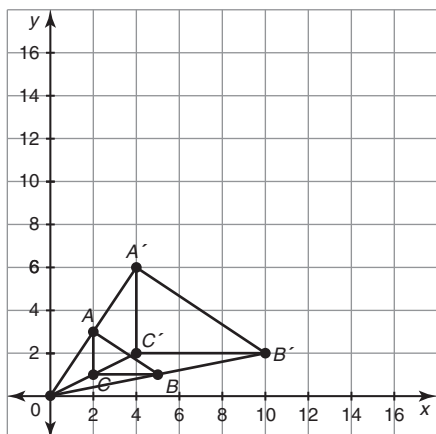
3. center of dilation

4. scale factor

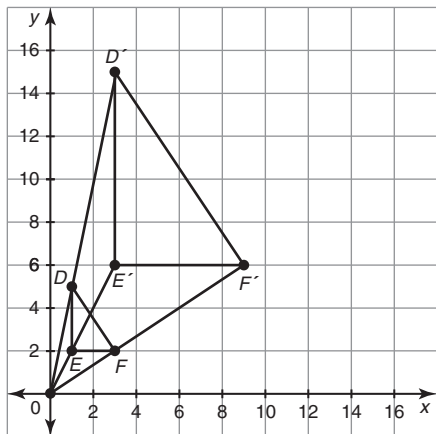
Problem Set

Given the image and preimage, determine the scale factor.

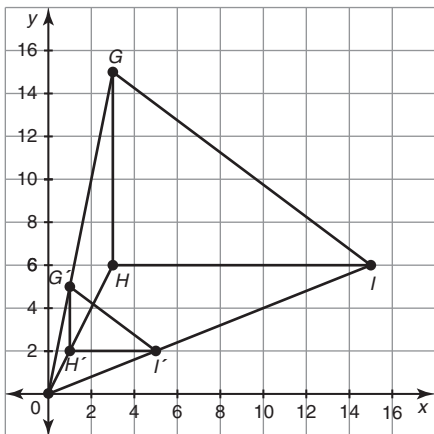
5.



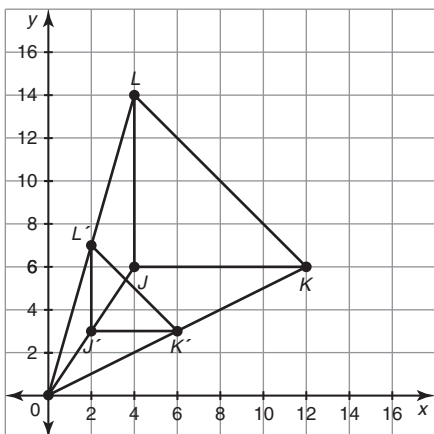
6.



7.

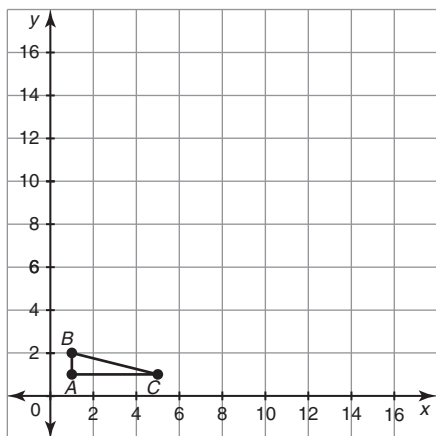


8.

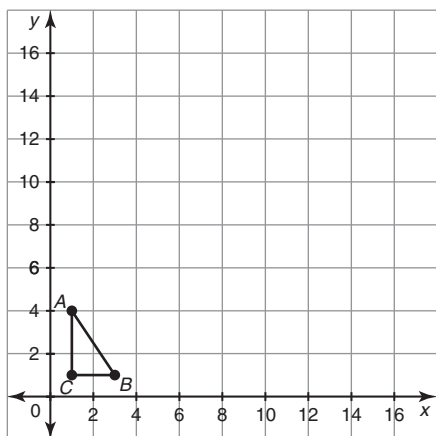


Given the preimage, scale factor, and center of dilation, graph the image.

9. The scale factor is 3 and the center of dilation is the origin.



10. The scale factor is 4 and the center of dilation is the origin.



11. The scale factor is $\frac{1}{4}$ and the center of dilation is the origin.

