

# Assignment

## Write

Define the term *similar triangles* in your own words.

## Remember

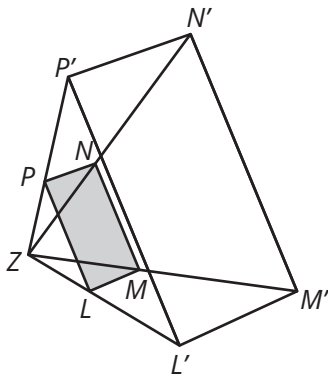
A dilation is a transformation that enlarges, reduces, or keeps congruent a pre-image to create a similar image.

When the scale factor of a dilation is greater than 1, the dilation is an enlargement. When the scale factor is between 0 and 1, the dilation is a reduction. When the scale factor is exactly 1, the dilation produces congruent figures.

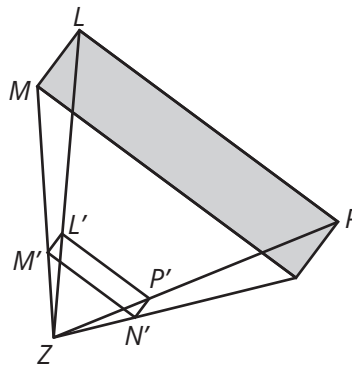
## Practice

Given each pre-image and image, determine the scale factor.

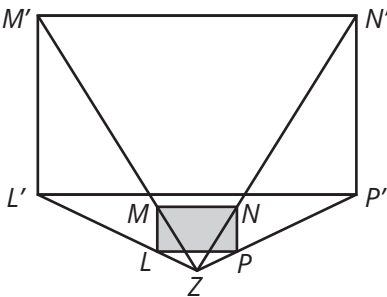
1.



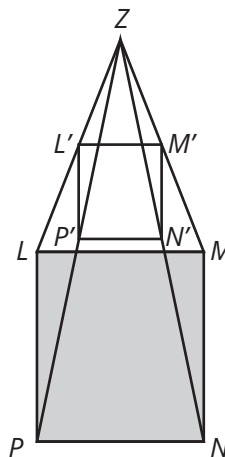
2.

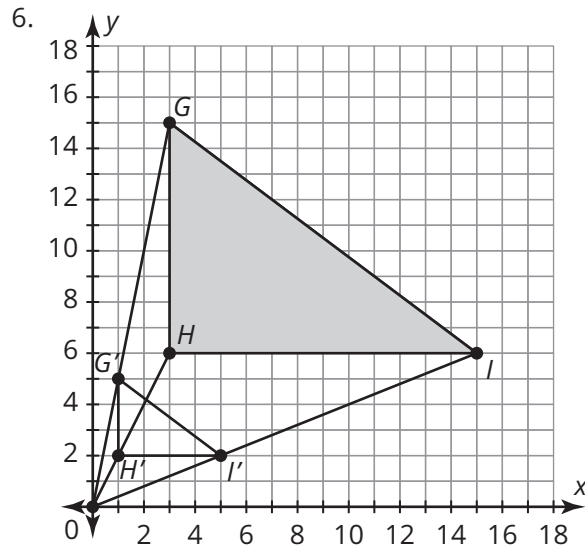
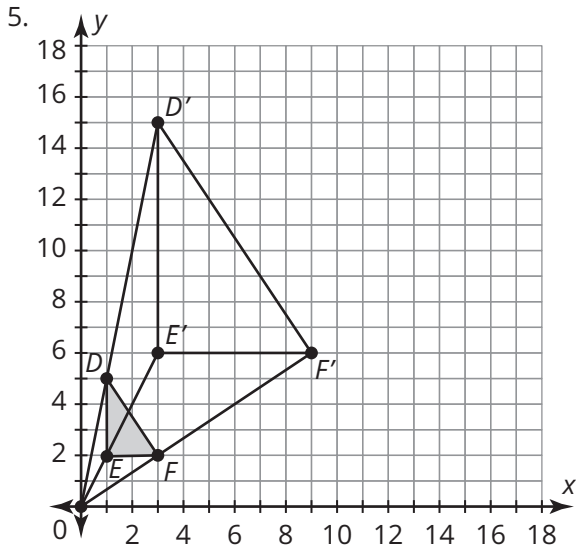


3.



4.





Use the definition of similarity in terms of transformations to determine whether each pair of figures are similar. Justify your reasoning.

