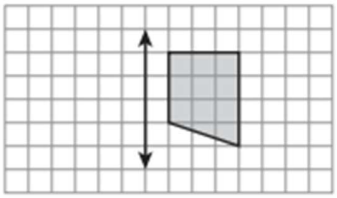
RSCS Name:_____

Class:_____ Date:_____

Homework

2 A figure and a line of reflection are shown. Draw the image of the figure after it is reflected across the line.

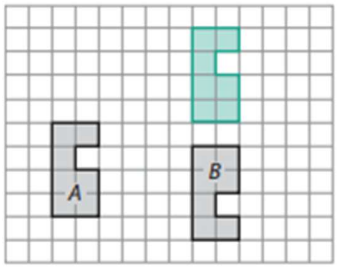


3 Look at the image you drew in problem 2. Are the properties of the sides and angles in the image the same as the properties of the sides and angles in the original figure? Explain.

_____

_____

5 Consider the three figures on the grid.



a. How was the green figure transformed to get image *A*?

_____

_____

b. How was the green figure transformed to get image *B*?

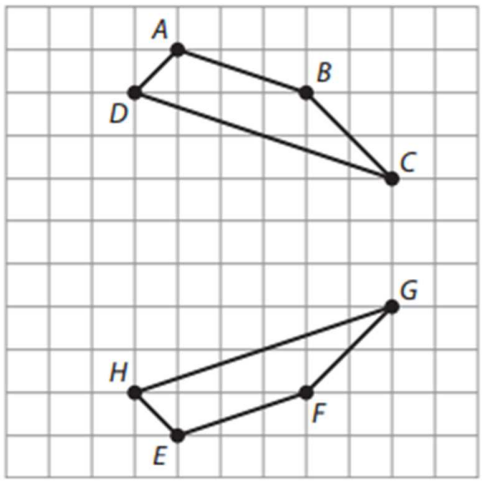
_____

_____

4 Trapezoid *EFGH* is the result of a transformation on Trapezoid *ABCD*.

Write a word or segment from the box to correctly complete the sentences.

parallel	perpendicular	reflection
rotation	translation	$\overline{CD}$ $\overline{EF}$ $\overline{FG}$

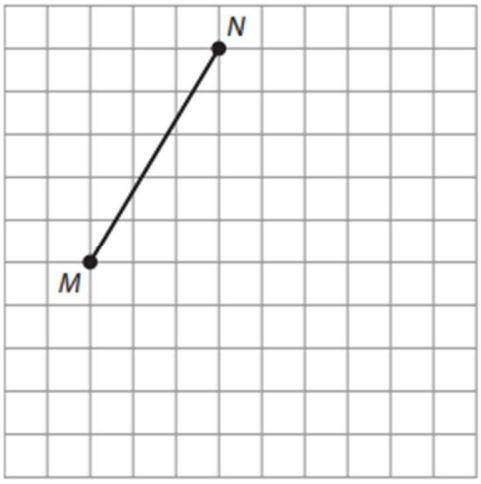


Answer:

EFGH is a _____ of *ABCD*.

If $\overline{CD}$ is parallel to $\overline{AB}$, then $\overline{GH}$ is _____ to _____.

1 $\overline{MN}$ is shown on the grid below.



$\overline{MN}$ is translated 4 units down and 3 units to the right to form $\overline{PQ}$.

Which statement describes the length of $\overline{PQ}$?

A The length is 7 units more than the length of $\overline{MN}$.

B The length is 1 unit more than the length of $\overline{MN}$.

C The length is 1 unit less than the length of $\overline{MN}$.

D The length is the same as the length of $\overline{MN}$.