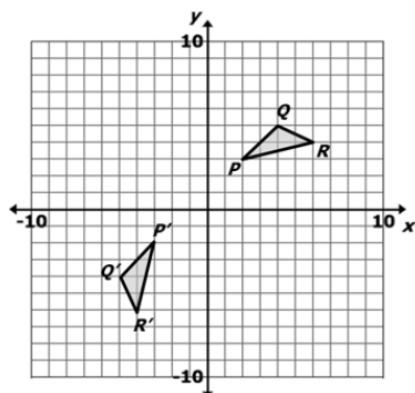


Standard- 8.G.2

Consider triangles PQR and $P'Q'R'$.



Which sequences of transformations will prove that triangle PQR is congruent to triangle $P'Q'R'$?

Select ALL that apply.

- A a rotation of 180° clockwise about the origin
- B a reflection across the x -axis and then across the y -axis
- C a reflection across the y -axis followed by a 90° clockwise rotation about the origin
- D a reflection across the y -axis followed by a 90° counterclockwise rotation about the origin
- E a reflection across the x -axis followed by a 90° clockwise rotation about the origin

Which individual transformation(s) will result in an image that is congruent to the original triangle?

Select ALL that apply.

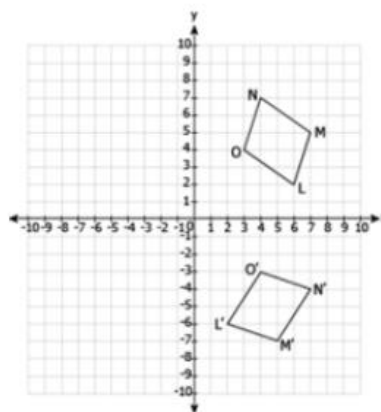
- A translation
- B rotation
- C reflection
- D dilation by a scale factor < 1
- E dilation by a scale factor $\neq 1$
- F dilation by a scale factor > 1

Which statement(s) is (are) true about two congruent figures?

Select ALL that apply.

- A The areas of the figures are equal.
- B The perimeters of the figures are equal.
- C The lengths of the corresponding sides are equal.
- D One can be transformed into the other by a series of translations, rotations, and reflections.
- E One can be transformed into the other by a series of translations, rotations, reflections and dilations with scale factors not equal to 1.

In the graph below, figure $LMNO$ is congruent to figure $L'M'N'O'$.



Which sequence of transformations needs to be applied on $LMNO$ to obtain $L'M'N'O'$?

- A Figure $LMNO$ is rotated 90° clockwise about the origin.
- B Figure $LMNO$ is reflected across the x -axis.
- C Figure $LMNO$ is translated 1 unit to the right and 7 units down.
- D Figure $LMNO$ is dilated by a factor of 2.

