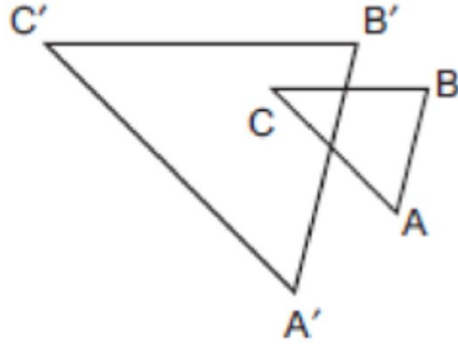


## Unit 1 Pre-Test

Take the test individually and then debrief with your responsibility teams. All of these questions are tied to the standards in the unit.

In the accompanying diagram,  $\triangle ABC$  is similar to but not congruent to  $\triangle A'B'C'$ .



Which transformation is represented by  $\triangle A'B'C'$ ?

- 1) rotation
- 2) translation
- 3) reflection
- 4) dilation

Is the following transformation a translation or rotation? Justify your answer.

**F**

**F**

What are the coordinates of  $A'$ , the image of  $A(-3,4)$ , after a rotation of  $180^\circ$  about the origin?

## Unit 1 Pre-Test

What is the image of the point  $(-3, -6)$  on rotation of  $90^\circ$  about the origin?

The image of point  $(3, 4)$  when reflected in the  $y$ -axis is

What are the coordinates of the midpoint of the line segment with endpoints  $(2, -5)$  and  $(8, 3)$ ?

A translation moves  $P(3, 5)$  to  $P'(6, 1)$ . What are the coordinates of the image of point  $(-3, -5)$  under the same translation?