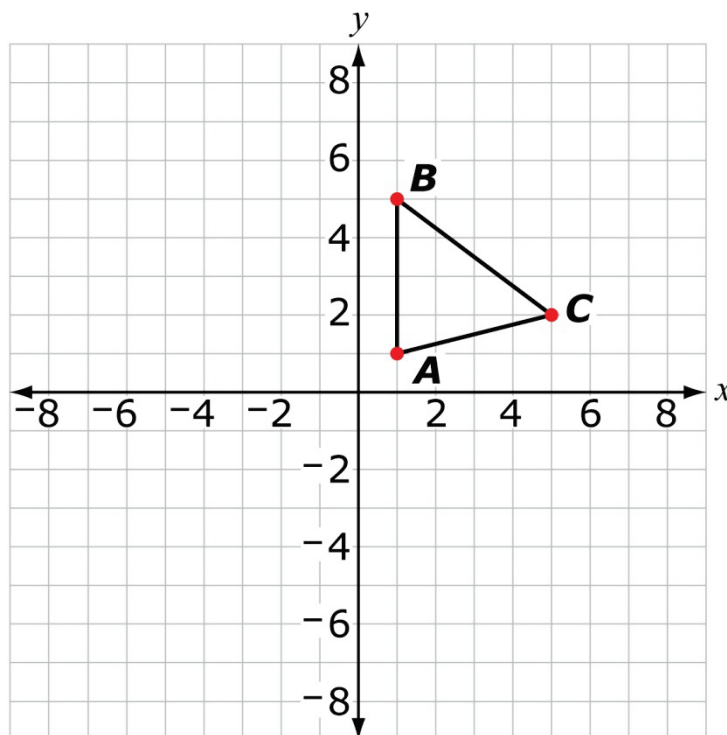


## MAT.08.SR.1.0000G.G.142 C1 TG

Sample Item ID:	MAT.08.SR.1.0000G.G.142
Grade:	08
Claim(s):	<b>Claim 1: Concepts and Procedures</b> Students can explain and apply mathematical concepts and interpret and carry out mathematical procedures with precision and fluency.
Assessment Target(s):	1 G: Understand congruence and similarity using physical models, transparencies, or geometry software.
Content Domain:	Geometry
Standard(s):	8.G.3
Mathematical Practice(s):	2, 7
DOK:	1
Item Type:	SR
Score Points:	1
Difficulty:	M
Key:	A
Stimulus/Source:	
Target-Specific Attributes (e.g., accessibility issues):	Blind or low-vision students may have difficulty with this item.
Notes:	

Triangle  $ABC$  is shown on this coordinate grid.



Triangle  $ABC$  is dilated with the origin as the center of the dilation. Which ordered pair could represent the image of point  $C$   $(5, 2)$  after the dilation?

- (A)  $(2.5, 1)$
- (B)  $(5, -2)$
- (C)  $(7.5, 4.5)$
- (D)  $(-1, -4)$

*Key and Distractor Analysis:*

- A. Key
- B. Students may confuse dilation with reflection.
- C. Students may think that you can add the same amount from each coordinate when dilating.
- D. Students may think that you can subtract the same amount from each coordinate when dilating.