

MAT.08.SR.1.0000G.H.143 C1 TH

Sample Item ID:	MAT.08.SR.1.0000G.H.143
Grade:	08
Claim(s):	Claim 1: Concepts and Procedures Students can explain and apply mathematical concepts and interpret and carry out mathematical procedures with precision and fluency.
Assessment Target(s):	1 H: Understand and apply the Pythagorean theorem.
Content Domain:	Geometry
Standard(s):	8.G.8
Mathematical Practice(s):	5, 6
DOK:	1
Item Type:	SR
Score Points:	1
Difficulty:	M
Key:	C
Stimulus/Source:	
Target-specific attributes (e.g., accessibility issues):	
Notes:	Calculator tool should be turned on for this item.

What is the distance between $(0, 0)$ and $(8, 15)$ on the xy -coordinate plane?

- A 7 units
- B 8 units
- C 17 units
- D 23 units

Key and Distractor Analysis:

- A. Students may subtract 8 from 15 to find the distance.
- B. Students may think that the distance is equal to the x value of the point that is not at the origin.
- C. Key
- D. Students may add 8 and 15 to find the distance.