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.