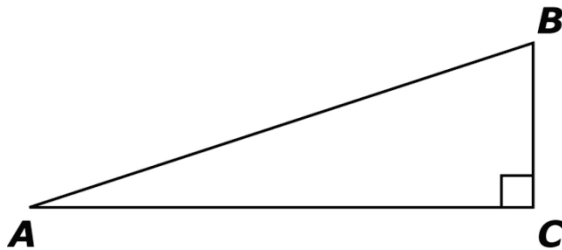


MAT.08.CR.1.0000G.H.002 C1 TH

Sample Item ID:	MAT.08.CR.1.0000G.H.002
Grade:	08
Claim(s):	Claim 1: Concepts and Procedures Students can explain and apply mathematical concepts 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.7
Mathematical Practice(s):	1, 5, 7, 8
DOK:	2
Item Type:	CR
Score Points:	2
Difficulty:	M
Key:	BC = 7, AC = 24, AB = 25 OR BC = 15, AC = 20, AB = 25 OR BC = 8, AC = 15, AB = 17
Stimulus/Source:	
Target-specific attributes (e.g., accessibility issues):	Calculators may be used for this target.
Notes:	The answer boxes will accept a maximum of 2 numerical digits.

In right triangle ABC , side AC is longer than side BC . The boxed numbers represent the possible side lengths of triangle ABC .



7	8
15	17
18	20
24	25

not drawn to scale

Identify three boxed numbers that could be the side lengths of triangle ABC . Enter the number you chose to represent the length of each side.

1a. $BC =$

1b. $AC =$

1c. $AB =$

Scoring Rubric:

Responses to this item will receive 0-2 points, based on the following:

2 points: The student shows a thorough understanding of the Pythagorean theorem. The student correctly chooses a set of 3 side lengths.

1 point: The student shows a partial understanding of the Pythagorean theorem. The student chooses the correct side lengths but does not enter them into the boxes correctly.

0 points: The student shows inconsistent or no understanding of the Pythagorean theorem.