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Pythagorean Theorem Worksheets Grade 8

Find the measure of the length of side of the right-angle triangle if the length of two sides of the triangle is given.

- 1) 377 in, 336 in
- 2) 57 ft, 176 ft
- 3) 180 yd, 299 yd
- 4) 217 ft, 456 ft
- 5) 697 ft, 696 ft



- 6) If the lengths of the side of a right triangular field is 459 yards and 220 yards. Find the length of the longest side of the field.
- 7) Will said that length of right-angle triangle are 3 units, 5 units and 4 units. His statement is:
a) True b) False

8) Fill in the blanks:

According to the Pythagoras theorem, if the length of the base of a triangle is 'a', length of the perpendicular is 'b', and length of the hypotenuse of the triangle is 'c', then $a^2 + b^2 = \underline{\hspace{2cm}}$

9) In a right-angle triangle, if the length of the hypotenuse is 149, and length of the base is 140. Find the length of the height of the triangle.

10) In a right-angle triangle, if the length of the hypotenuse is 277, and length of the base is 252. Find the length of the height of the triangle.



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"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

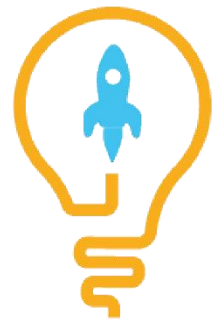
- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1)	505
2)	185
3)	349
4)	505
5)	985
6)	509
7)	True
8)	c^2
9)	51
10)	115