

Name: _____

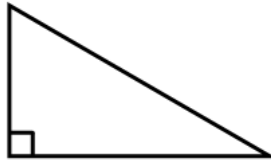
Date: _____

Notes

Algebra Section 11.4

Pages 737-742

Anatomy of a Right Triangle

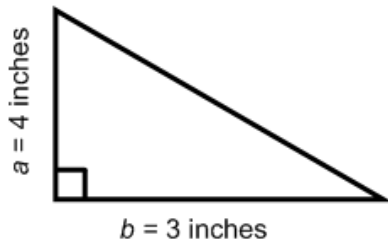


Pythagorean Theorem: If the triangle is a _____, then the _____ of the _____ of the lengths of the _____ is equal to the _____ squared.

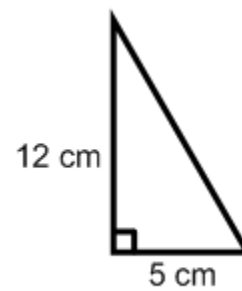


Use the Pythagorean Theorem to find the missing length:

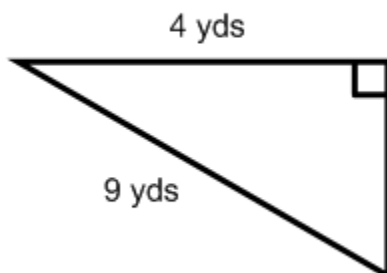
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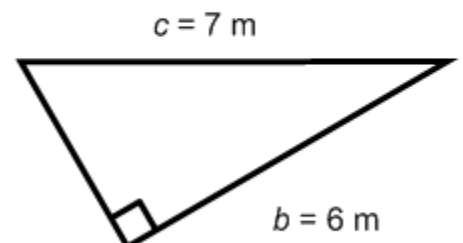
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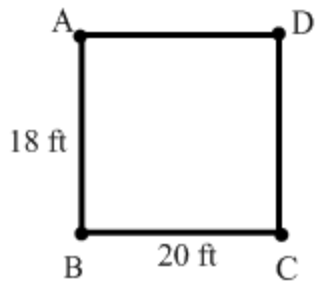
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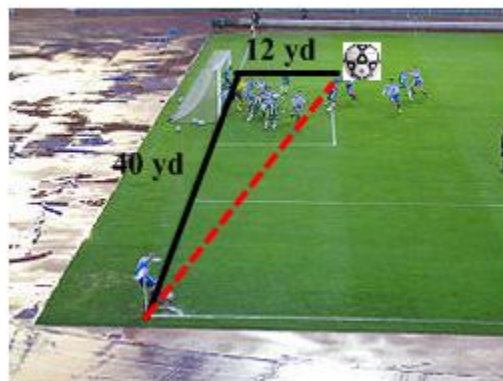
Ex:



Ex: Four people standing in a rectangle are playing Frisbee. Approximately how far is the throw from person A to person C?



Ex: A soccer player makes a corner kick to another player as shown below. How far is the kick, to the nearest yard?



CONVERSE OF THE PYTHAGOREAN THEOREM:

If a triangle has side lengths _____, _____, _____, such that _____, then the triangle is a _____

- If the _____ works, then it's a _____
_____. If not, _____

Tell whether the following side lengths could form a right triangle. Show or explain your work.

Ex: 8, 15, 17

Ex: 5, 9, 8

Ex: 13, 12, 5