

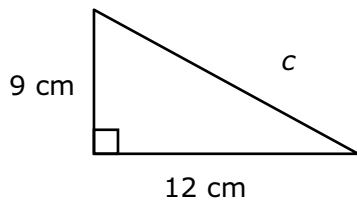
LESSON 30: Pythagorean Theorem Part 1

Homework

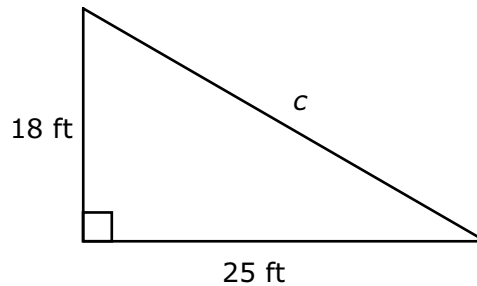
.....
Name _____ **Date** _____

Directions: Use the triangles below to find the length of each hypotenuse.

1. A triangle has side lengths of 9 cm and 12 cm. What is the length of the third side that would make it a Pythagorean Triple?

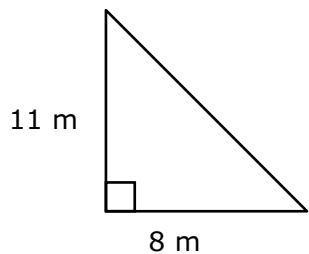


2. A fire truck parks 25 ft away from a building. The fire is 18 ft up. How far does the ladder need to be extended to reach the fire? (Round to the nearest foot.)

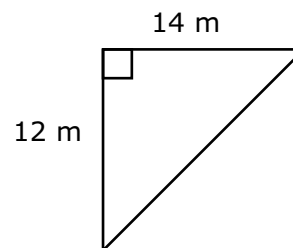


Directions: Find the missing side length. (Round to the nearest tenth.)

3.



4.



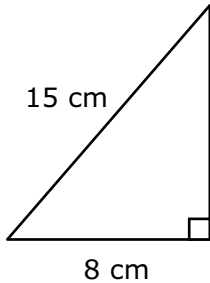
LESSON 30: Pythagorean Theorem Part 1

Homework

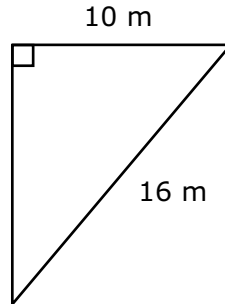
Name _____

Date _____

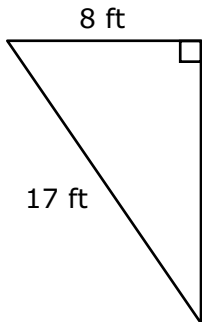
5.



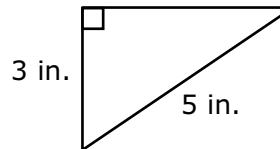
6.



7.



8.



9. Bo's family is moving. They have rented a truck that has a ramp on the back to make it easier to load heavy items. The ramp is 9 feet long, and the horizontal distance from the bottom of the ramp to the truck is 7 feet. What is the vertical distance from the ground to the truck?

10. A rectangular picture frame has measurements of 20 inches and 24 inches. Aaron wants to cut the frame diagonally with a piece of wood. How long will the piece of wood need to be?