

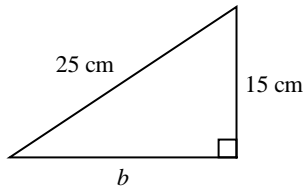
Name: _____

$$a^2 + b^2 = c^2$$

Unit Practice Test -- Pythagorean Theorem

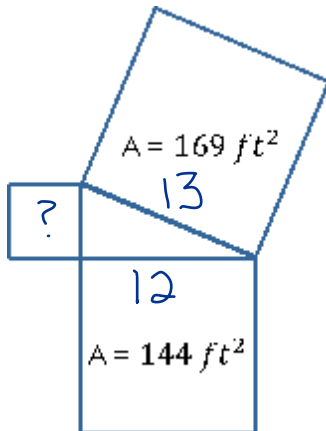
Identify the choice that best completes the statement or answers the question.

1. Find the length of the unknown side. Round your answer to the nearest tenth.



- A. 20 cm
- B. 400 cm
- C. 10 cm
- D. 29.2 cm

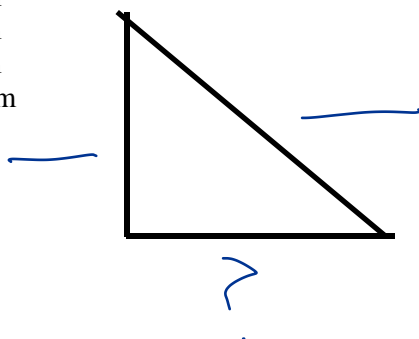
2. Find the area of the smallest side of the right triangle.



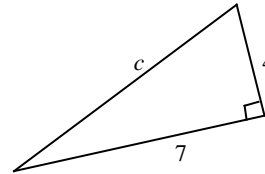
- A. 25 ft
- B. 5 ft
- C. 313 ft
- D. 13 ft

3. The length of two sides of a right triangle are leg: 12 m and hypotenuse: 15 m. Find the length of the third side.

- A. 1 m
- B. 6 m
- C. 9 m
- D. 17 m



4. Find the length of the hypotenuse. Round your answer to the nearest hundredth.

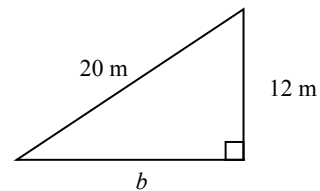


- A. 11.00
- B. 9.95
- C. 8.06
- D. 3.32

5. The length of two sides of a right triangle are leg: 9 m and hypotenuse: 16 m. Find the length of the third side. Round to the nearest tenth if necessary.

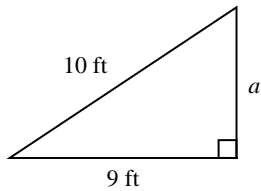
- A. 28.8 m
- B. 13.2 m
- C. 104 m
- D. 14.4 m

7. Find the length of the unknown side. Round your answer to the nearest tenth.

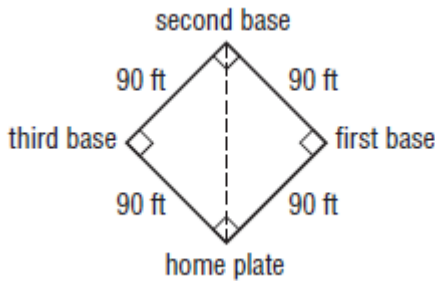


- A. 23.3 m
- B. 16 m
- C. 256 m
- D. 8m

8. Find the length of the unknown side. Round your answer to the nearest tenth.

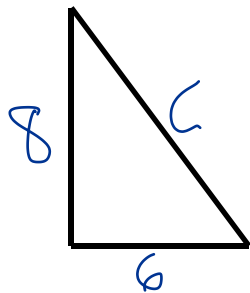


- A. 13.5 ft
 B. 1 ft
 C. 4.4 ft
 D. 19 ft
9. Matt is the catcher for his school's baseball team. The catcher must be able to throw from home plate to second base. What is the distance from home plate to second base?

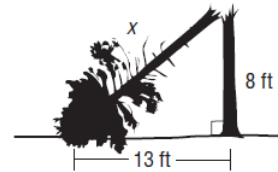


10. A rectangular park has been constructed in downtown Lilburn. The designer wants to put a gravel walkway that cuts diagonally through the park. The width is 8 ft and the height is 6 ft long. What is the length of his walkway?

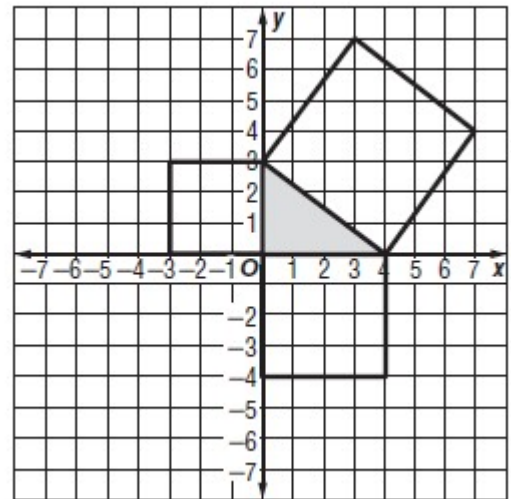
- A. 23 feet
 B. 13 feet
 C. 10 feet
 D. 7 feet



11. A large pine tree was struck by lightning and fell as shown by the diagram below. Which equation could be used to find the length of the fallen part of the tree?



12. What is the area of the medium square in the figure shown?



- A. 5 square units
 B. 9 square units
 C. 16 square units
 D. 25 square units