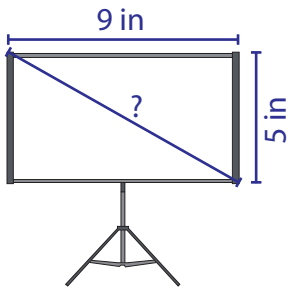
Name : _____ Score : _____

Pythagorean Theorem

Level 1: S3

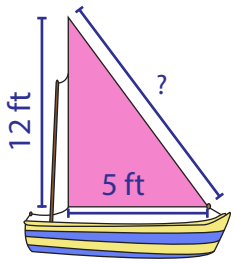
Solve the word problems. Round the answer to the nearest tenth.

1) John won a tripod projector screen in a lucky draw. The screen is 9 inches long and 5 inches wide. What is the diagonal length of the projector screen?



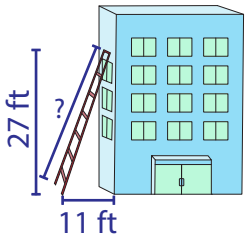
_____

2) The mast of a sailboat is 12 feet high. A sturdy rope that supports the mast to the deck is 5 feet away from the base of the mast. Determine the length of the rope.



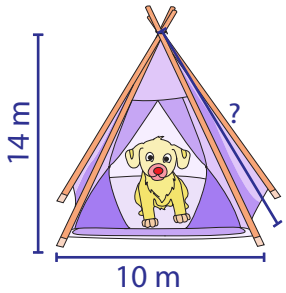
_____

3) Ben propped a ladder against the wall of a building. The distance between the base of the building and the foot of the ladder is 11 feet. The top of the ladder touches the wall at a height of 27 feet. What is the length of the ladder?



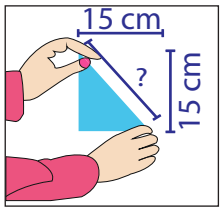
_____

4) Sandra built a dog house in the shape of a tent. The ridge is 14 meters high and the base of the tent is 10 meters wide. Find the slant height of the tent.



_____

5) Anne was given a sheet of paper during her math class. She was asked to fold the paper, so as to get the adjacent sides to meet, as shown in the figure. The paper is 15 cm long and 15 cm wide. How much would the diagonal edge of the paper measure?



_____

Name : _____ **Answer Key** Score : _____

Pythagorean Theorem

Level 1: S3

Solve the word problems. Round the answer to the nearest tenth.

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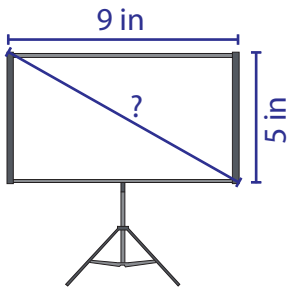
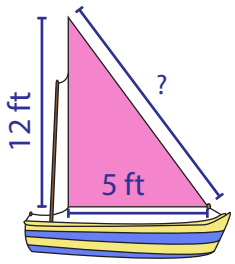


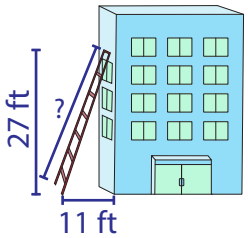
10.3 in

2) The mast of a sailboat is 12 feet high. A sturdy rope that supports the mast to the deck is 5 feet away from the base of the mast. Determine the length of the rope.



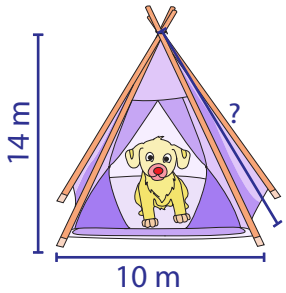
13 ft

3) Ben propped a ladder against the wall of a building. The distance between the base of the building and the foot of the ladder is 11 feet. The top of the ladder touches the wall at a height of 27 feet. What is the length of the ladder?



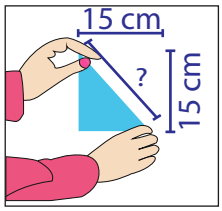
29.2 ft

4) Sandra built a dog house in the shape of a tent. The ridge is 14 meters high and the base of the tent is 10 meters wide. Find the slant height of the tent.



14.9 m

5) Anne was given a sheet of paper during her math class. She was asked to fold the paper, so as to get the adjacent sides to meet, as shown in the figure. The paper is 15 cm long and 15 cm wide. How much would the diagonal edge of the paper measure?



21.2 cm