

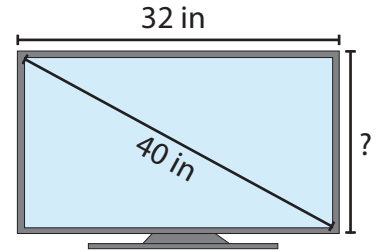
Name : \_\_\_\_\_

## Pythagorean Theorem

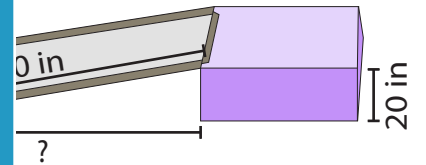
Level 2: S3

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

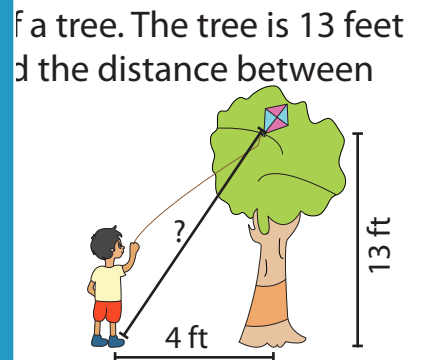
- 1) Rebecca bought an LED television set that is 32 inches long. The diagonal length measures 40 inches. What is the width of the television screen?



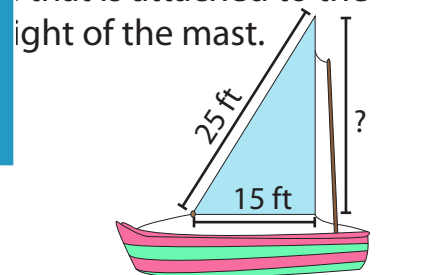
- 2) A ramp is elevated to a height of 20 inches. The length of the ramp is 40 inches. What is the horizontal distance between the base of the ramp and the wall it is leaning against?



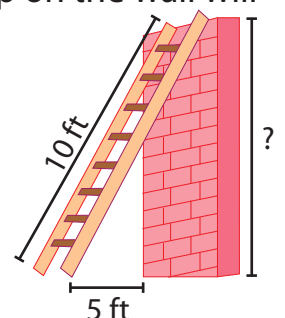
- 3) Daniel was flying a kite 100 feet high. Daniel is standing 40 feet from the base of the tree. What is the distance between Daniel and the kite?



- 4) The mast of a sailboat is 25 feet long. The distance from the base of the mast to the deck is 15 feet. How high up on the mast is the sail attached to the right of the mast?



- 5) Paul props a ladder against a wall which measures 10 feet. How high up on the wall will the ladder reach, if the foot of the ladder is 5 feet away from the wall?



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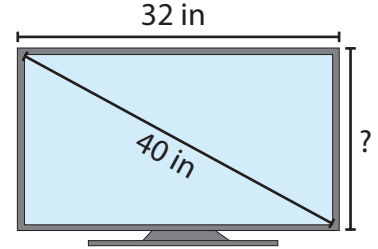
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**Pythagorean Theorem**

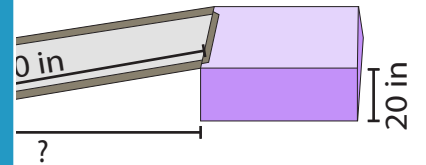
Solve the word problems. Round the answer to the nearest tenth.

- 1) Rebecca bought an LED television set that is 32 inches long. The diagonal length measures 40 inches. What is the width of the television screen?



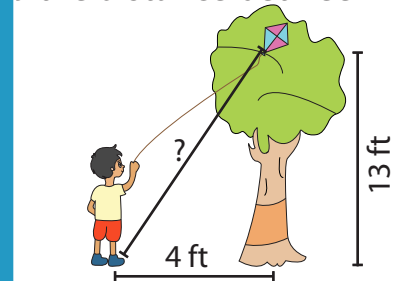
**24 inches**

- 2) A ramp is elevated to a height of 20 inches. The length of the ramp is 40 inches. What is the horizontal distance it covers?



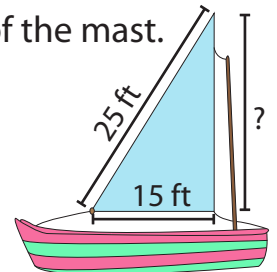
**34.6 inches**

- 3) Daniel was flying a kite 13 feet high. Daniel is standing 4 feet away from the base of the tree. The tree is 13 feet high. What is the distance between Daniel and the kite?



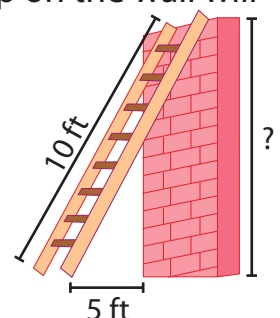
**13.6 feet**

- 4) The mast of a sailboat is 25 feet long. The distance from the tip of the mast to the deck is 15 feet. How high up on the mast is the point that is attached to the deck?



**20 feet**

- 5) Paul props a ladder against a wall which measures 10 feet. How high up on the wall will the ladder reach, if the foot of the ladder is 5 feet away from the wall?



**8.7 feet**

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