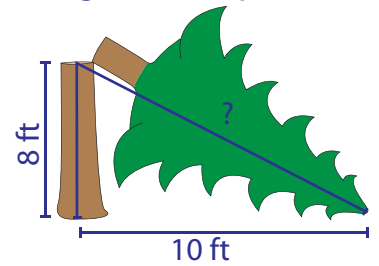


## Pythagorean Theorem

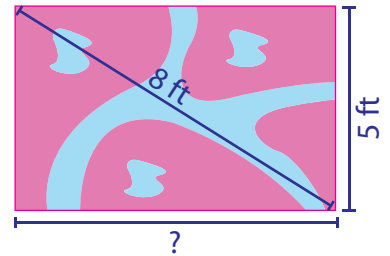
Level 2: S2

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

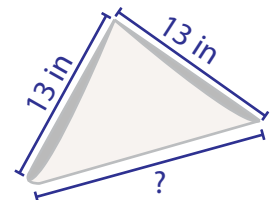
- 1) A tree is axed 8 feet above its base. When the tree fell to the ground, the tip of the tree lay 10 feet away from its base, as shown in the figure. Determine the length of the part of the tree that was axed.



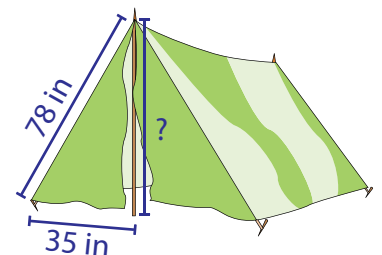
- 2) Brenda buys a carpet for her apartment. The diagonal length of the carpet is 8 feet and the width is 5 feet. Find the length.



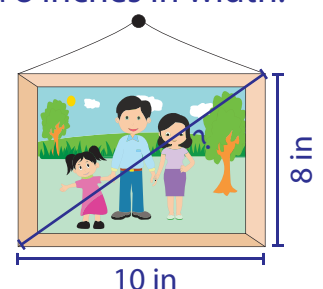
- 3) A napkin is folded in half as shown in the figure. The diagonal length of the folded napkin is 13 inches. Determine the length of the adjacent sides to meet and the width. Determine the length of the original napkin.



- 4) Mike pitches a ridge of the tent measures 78 inches wide and the slope of the tent is 35 inches. Determine the height of the tent.



- 5) Paul bought a photo frame which measured 10 inches in length and 8 inches in width. Determine the diagonal length of the photo frame.



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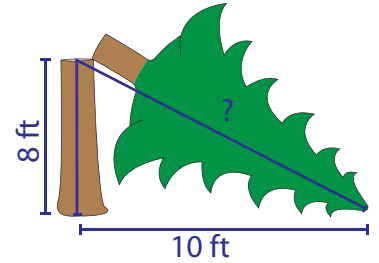
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## Pythagorean Theorem

Level 2: S2

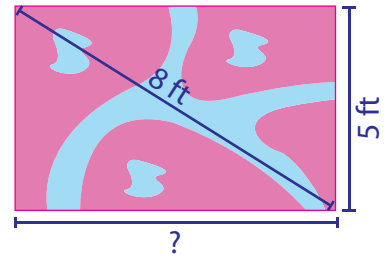
Solve the word problems. Round the answer to the nearest tenth.

- 1) A tree is axed 8 feet above its base. When the tree fell to the ground, the tip of the tree lay 10 feet away from its base, as shown in the figure. Determine the length of the part of the tree that was axed.



**12.8 feet**

- 2) Brenda buys a carpet for her apartment. The diagonal length of the carpet is 8 feet and the width is 5 feet. Find the length.



**6.2 feet**

- 3) A napkin is folded in half as shown in the figure. The diagonal length of the folded napkin is 13 inches. Determine the length of the original napkin.

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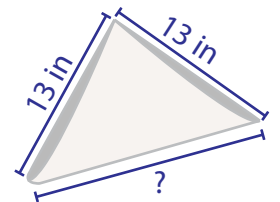
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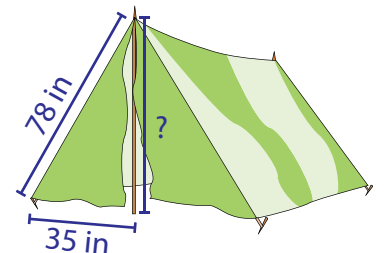
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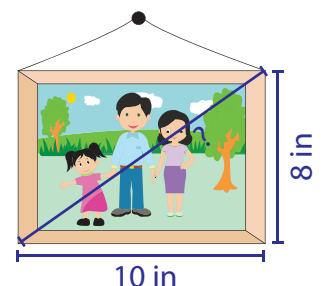
**18.4 inches**

- 4) Mike pitches a ridge of the tent measures 78 inches wide and the slope of the tent is 35 inches. Determine the height of the tent.



**69.7 inches**

- 5) Paul bought a photo frame which measured 10 inches in length and 8 inches in width. Determine the diagonal length of the photo frame.



**12.8 inches**