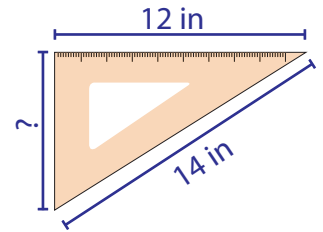


## Pythagorean Theorem

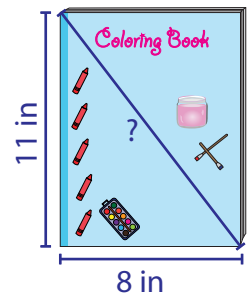
Level 2: S1

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

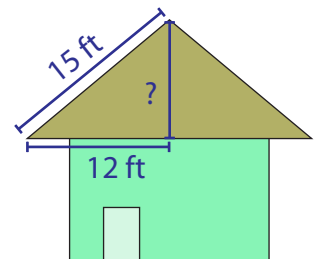
- 1) Ruth develops a blueprint with the help of a triangle. The longest side of the instrument measures 14 inches and one of the sides measures 12 inches. Determine the length of the other side of the instrument.



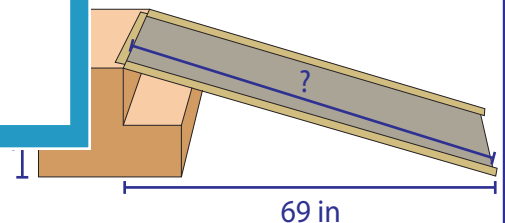
- 2) Carol bought a coloring book. It is 11 inches long and 8 inches wide. What is the diagonal length of the book?



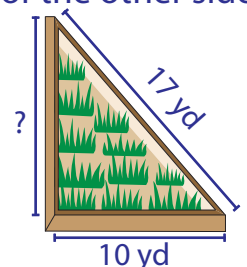
- 3) The slope of the rafters of the ridge from the top of the roof is 15 feet. Find the height of the ridge.



- 4) A ramp is elevated to a height of 12 feet. The length of the ramp is 69 inches. What is the horizontal distance between the lower end of the ramp and the base of the structure it is attached to?



- 5) Ashley has a right triangular garden in her backyard. The longest side of the garden measures 17 yards. One of the sides is 10 yards long. Find the length of the other side of the garden.



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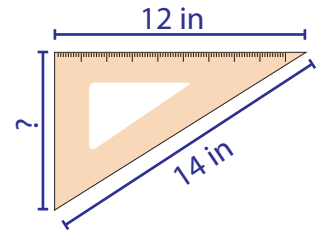
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## Pythagorean Theorem

Level 2: S1

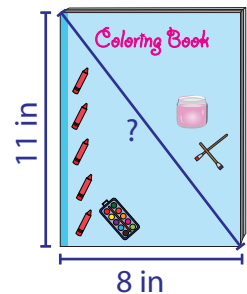
Solve the word problems. Round the answer to the nearest tenth.

- 1) Ruth develops a blueprint with the help of a triangle. The longest side of the instrument measures 14 inches and one of the sides measures 12 inches. Determine the length of the other side of the instrument.



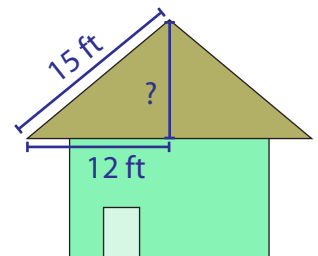
**7.2 inches**

- 2) Carol bought a coloring book. It is 11 inches long and 8 inches wide. What is the diagonal length of the book?



**13.6 inches**

- 3) The slope of the rafters of the ridge from the top of the roof is 15 feet. Find the height of the ridge from the horizontal distance between the figure. What is the



**9 feet**

- 4) A ramp is elevated to the lower end of the ramp. Determine the length of the ramp?

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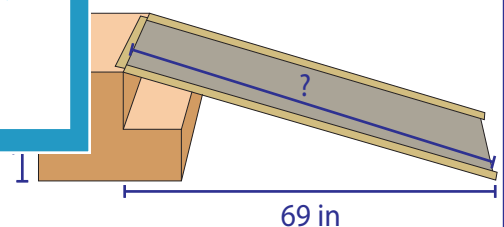
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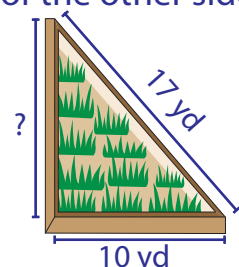
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**74.1 inches**

- 5) Ashley has a right triangular garden in her backyard. The longest side of the garden measures 17 yards. One of the sides is 10 yards long. Find the length of the other side of the garden.



**13.7 yards**