

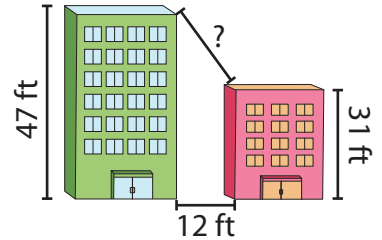
Name : _____

Pythagorean Theorem

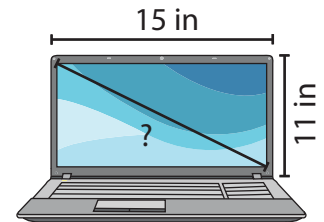
Level 1: S2

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

- 1) There are two buildings beside each other that are 47 feet and 31 feet high. The buildings are 12 feet apart. What is the distance between the rooftops of the buildings?

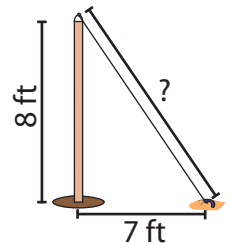


- 2) Joshua won a laptop in a school raffle. The laptop screen measures 15 inches in length and 11 inches in width. Find the length of the diagonal.



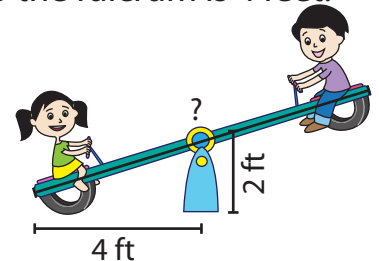
- 3) Carol pitches a tent pole and nailed it into the ground. The distance between the base of the pole and the peg is 7 feet. The height of the pole is 8 feet. What is the length of the pole?

Find the length of the pole from the tip of the pole to the peg. The distance between the base of the pole and the peg is 7 feet.

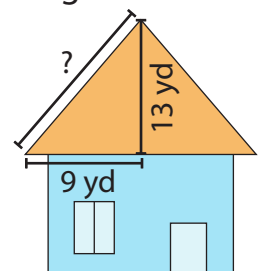


- 4) Ross and Monica are playing on a seesaw. The fulcrum is 2 feet from the ground. The distance from the fulcrum to the end where Ross is sitting is 4 feet. The distance from the fulcrum to the end where Monica is sitting is 6 feet. What is the length of the seesaw?

Find the length of the seesaw. The height of the fulcrum to the ground is 2 feet. The distance from the fulcrum to the end where Ross is sitting is 4 feet.



- 5) The roof rafter of a house has been raised to a height of 13 yards at the ridge. Half the length of the run measures 9 yards. Find the length of the rafter.



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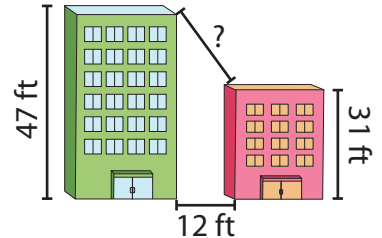
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Pythagorean Theorem

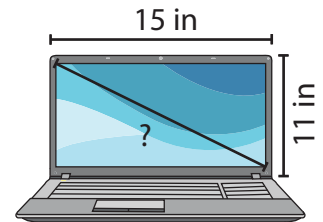
Solve the word problems. Round the answer to the nearest tenth.

- 1) There are two buildings beside each other that are 47 feet and 31 feet high. The buildings are 12 feet apart. What is the distance between the rooftops of the buildings?



20 feet

- 2) Joshua won a laptop in a school raffle. The laptop screen measures 15 inches in length and 11 inches in width. Find the distance from the top-left corner to the bottom-right corner of the screen.



18.6 inches

- 3) Carol pitches a tent pole and nails it into the ground. The distance from the base of the pole to the peg is 7 feet. The height of the pole is 8 feet. What is the distance from the tip of the pole to the peg?

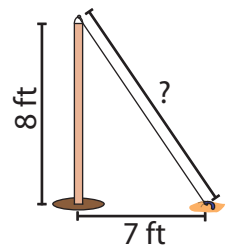
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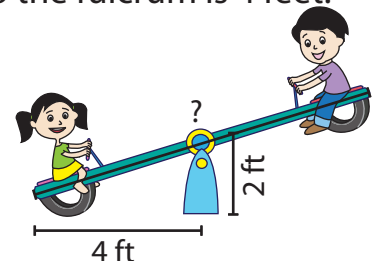
- 4) The distance from the base of the pole to the peg is 7 feet. The height of the pole is 8 feet. What is the distance from the tip of the pole to the peg?



10.6 feet

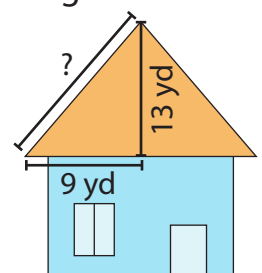
- 4) Ross and Monica are on a seesaw. The fulcrum is 2 feet from the ground. The distance from the fulcrum to Ross is 4 feet. The distance from the fulcrum to Monica is 4 feet. What is the length of the seesaw?

- 5) The roof rafter of a house has been raised to a height of 13 yards at the ridge. Half the length of the run measures 9 yards. Find the length of the rafter.



9 feet

- 5) The roof rafter of a house has been raised to a height of 13 yards at the ridge. Half the length of the run measures 9 yards. Find the length of the rafter.



15.8 yards