



Pythagorean Theorem - Word Problems

Math Blast



Name

Score

Solve and show all steps.

<p>A 15-foot ladder is leaning against a wall. The base of the ladder is 9 feet away from the base of the wall. How high up the wall does the ladder reach?</p>	<p>Show all steps here</p>
<p>A rectangular park measures 80 meters long and 60 meters wide. If you walk diagonally across the park from one corner to the opposite corner, how much shorter is that distance than walking along two sides (length then width)?</p>	<p>Show all steps here</p>
<p>Maria is flying a kite. The string is 50 meters long, and she is holding it 1 meter above the ground. If the horizontal distance from Maria to the point directly under the kite is 40 meters, what is the actual altitude (height from the ground) of the kite?</p>	<p>Show all steps here</p>
<p>A boat travels 7 miles due South from its starting point. Then, it turns and travels 24 miles due West. What is the straight-line distance from the boat's current position back to its starting point?</p>	<p>Show all steps here</p>
<p>A television screen has a width of 36 inches and a height of 27 inches. What is the diagonal length of the television screen? (This is usually how TV sizes are measured).</p>	<p>Show all steps here</p>



Solve and show all steps.

The ladder reaches **12 feet** up the wall.

The diagonal path is **100 meters**. Walking along the sides is **40 meters longer**.

The kite is **31 meters** high off the ground.

The straight-line distance from the boat's current position back to its starting point is **25 miles**.

The diagonal length of the television screen is **45 inches**.