

## Pythagorean Theorem: Level 3

### Solutions

Find the missing side lengths of each right triangle. Round any irrational side lengths to the nearest tenth.

1.

$$\begin{aligned} x \text{ units} & \quad \sqrt{288} \text{ units} \quad x^2 + x^2 = (\sqrt{288})^2 \\ & \quad 2x^2 = 288 \\ & \quad x^2 = 144 \\ & \quad x = 12 \end{aligned}$$

The missing sides are both 12 units long.

2.

$$\begin{aligned} x \text{ units} & \quad \sqrt{245} \text{ units} \quad x^2 + (2x)^2 = (\sqrt{245})^2 \\ & \quad x^2 + 4x^2 = 245 \\ & \quad 5x^2 = 245 \\ & \quad x^2 = 49 \\ & \quad x = 7 \end{aligned}$$

The missing sides are 7 units and 14 units long.

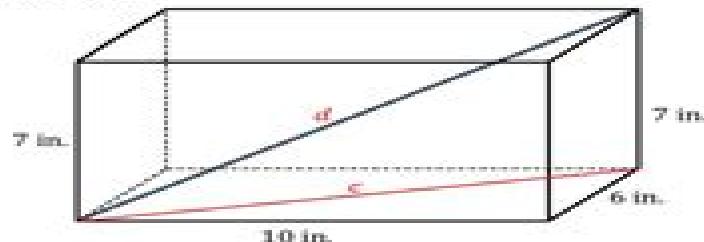
3. Determine if the statement below is true or false.

*"The sum of the legs of a right triangle is always equal to the length of the hypotenuse."*

True

False

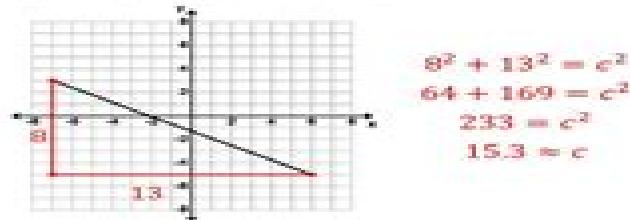
4. A straw is placed inside a rectangular box that is 10 inches by 6 inches by 7 inches. If the straw fits exactly into the box diagonally from the bottom left front corner to the top right back corner, about how long is the straw?



$$\begin{aligned} 6^2 + 10^2 &= c^2 & 7^2 + (\sqrt{136})^2 &= d^2 \\ 36 + 100 &= c^2 & 49 + 136 &= d^2 \\ 136 &= c^2 & 185 &= d^2 \\ \sqrt{136} &= c & \sqrt{185} &= d \\ 12 &= c & 13.6 &= d \end{aligned}$$

The straw is about 13.6 inches long.

5. Determine the distance between the two ordered pairs:  $(-7, 3)$  and  $(6, -5)$ .



The distance is about 15.3 units.

## 2 The Pythagorean Theorem Answers

**BM King**

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