

Pythagorean Theorem: Level 3

Solutions

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

1.



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

The missing sides are both **12** units long.

2.



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

The missing sides are **7** units and **14** units long.

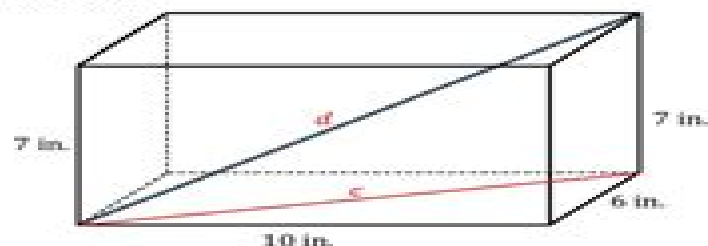
3. Determine if the statement below is true or false.

"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?



$$6^2 + 10^2 = c^2$$

$$36 + 100 = c^2$$

$$136 = c^2$$

$$\sqrt{136} = c$$

$$7^2 + (\sqrt{136})^2 = d^2$$

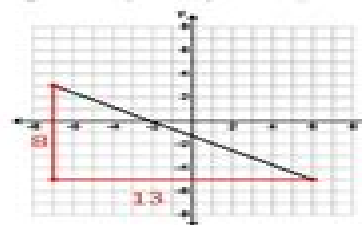
$$49 + 136 = d^2$$

$$185 = d^2$$

$$13.6 \approx d$$

The straw is about **13.6** inches long.

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



$$8^2 + 13^2 = c^2$$

$$64 + 169 = c^2$$

$$233 = c^2$$

$$15.3 \approx c$$

The distance is about **15.3** units.

Looking For Pythagoras 8th Grade Answers

JE Gale



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