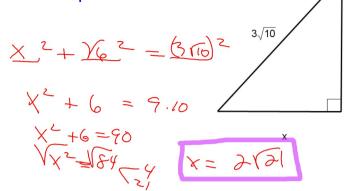
Find the exact value of the missing side in simplest radical form.

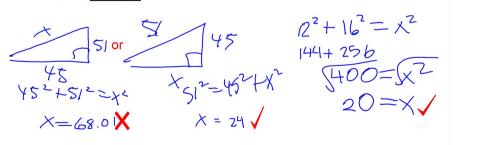


Pvthagorean Triples: 3 whole numbers that make the Pythagorean Theorem true.

> The most well known Pythagorean Triple is 3.4.5

You are given two numbers of a Pythagorean Triple. Find the third number.

1. 45,51, 24



$$\frac{2^{2} + 16^{2} - x^{2}}{44 + 25b}$$

$$\frac{400 - x^{2}}{20 - x}$$

You are given two numbers of a Pythagorean Triple. Find the third number.

27,365, **36**4

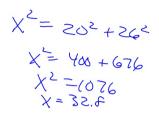
$$\frac{27^{2} + 365^{2} - x}{133,954 - x^{2}}$$

$$\frac{27^{2} + x^{2} - 365^{2}}{x^{2} - 132,496}$$

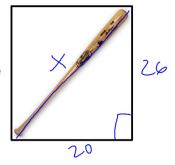
$$\frac{365.997 - x}{365.997 - x}$$

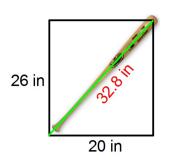
You have a bat that is 33 inches long and want to store it by placing it in the bottom of a box that has the following dimensions for the bottom: 26in by 20in

Will the bat fit?



No, the bat won't fit. The diagonal is shorter than the bat.





If the box is 6 in tall will it fit if you place it diagonally as shown below?

3282 462=x2

33.34=X

Yes, it will fit this way because the diagonal measures 33.34 inches.