





MasterMath



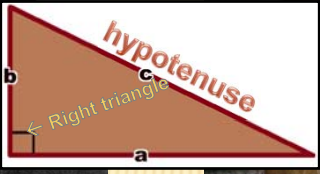
Geometry
USING THE PYTHAGOREAN THEOREM



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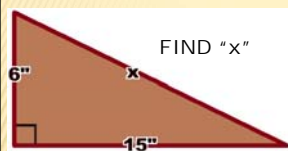


$a^2 + b^2 = c^2$

The square of the hypotenuse equals the sum of the squares of the other two sides.



USING THE PYTHAGOREAN THEOREM



$$a^2 + b^2 = c^2$$

$$x^2 = 15^2 + 6^2$$

$$x^2 = 225 + 36$$

$$x^2 = 261$$

$$x = \sqrt{261}$$

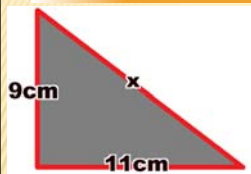
$$x \approx 16.16''$$

$$16^2 = 256$$

$$17^2 = 289$$

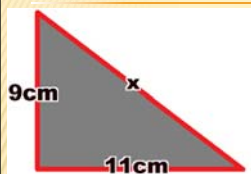
$$x \approx 16.2''$$

USING THE PYTHAGOREAN THEOREM



You Try

USING THE PYTHAGOREAN THEOREM



$$a^2 + b^2 = c^2$$

$$x^2 = 11^2 + 9^2$$

$$x^2 = 121 + 81$$

$$x^2 = 202$$

$$x = \sqrt{202}$$

$$x \approx 14.21 \text{ CM}$$

You Try

USING THE PYTHAGOREAN THEOREM



You Try It!

USING THE PYTHAGOREAN THEOREM

$$a^2 + b^2 = c^2$$

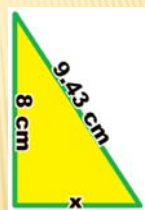
$$x^2 + 8^2 = 9.43^2$$

$$x^2 + 64 = 88.92$$

$$x^2 = 24.92$$

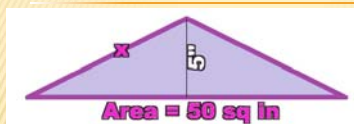
$$x = \sqrt{24.92}$$

$$x \approx 5 \text{ cm}$$



You Try It!

USING THE PYTHAGOREAN THEOREM



Find x

You Try It!

USING THE PYTHAGOREAN THEOREM

**Find x**

$$\frac{1}{2} * 20 = 10$$

$$10^2 + 5^2 = x^2$$

$$125 = x^2$$

$$11.2'' \approx x$$

$$A = .5 * b * h$$

$$50 = .5 * b * 5$$

$$20 = b$$

You Try

USING THE PYTHAGOREAN THEOREM

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Using the Pythagorean Theorem

from the Worksheets Page, and test your skill. Then see how much you understand by taking the Subject Quiz