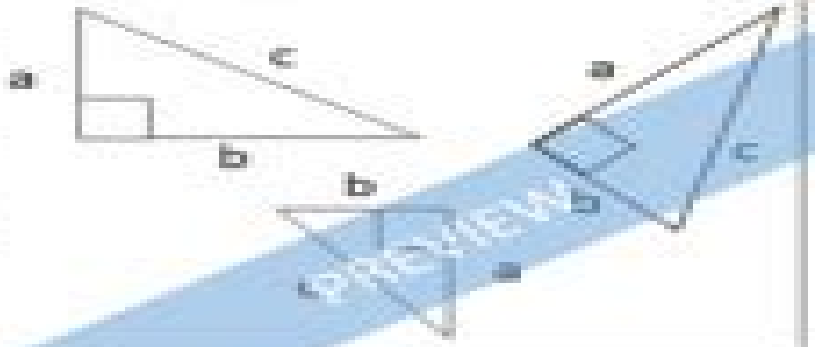
Pythagorean 2

Pythagorean Theorem

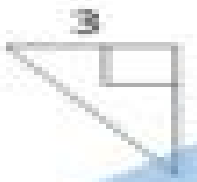
Pythagorean Theorem Rules
Helps find the length of any leg of a triangle
MUST be a right triangle
a and b can be switched, but c is ALWAYS the hypotenuse (across from the right angle).

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



STEP 1 Identify the values of a, b, and c

Example 1



$a =$ [ ]

$b =$ [ ]

$c =$ [c]

Example 2

$a =$ [a]

$b =$ [ ]

$c =$ [ ]

STEP 2 Substitute the values into the formula

Example 1

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

$(\quad)^2 + (\quad)^2 = c^2$

Example 2

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

$a^2 + (\quad)^2 = (\quad)^2$

STEP 3 Simplify and Solve

Example 1 $(3)^2 + (4)^2 = c^2$

Square the numbers: $(\quad) + (\quad) = c^2$

Add the squares: $(\quad) = c^2$

Take the square root: $(\quad) = c$

Example 2 $a^2 + (5)^2 = (13)^2$

Square the numbers: $a^2 + (\quad) = (\quad)$

Subtract the squares: $a^2 = (\quad)$

Take the square root: $a = (\quad)$

Check answers on back

5 7 Reteach The Pythagorean Theorem

Ron Larson

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Bibliography Illustrations Credits Index *Looking for Pythagoras* ,2004 Contains a complete eighth grade mathematics curriculum with connections to other subject areas Pythagorean Theorem Ilexa Yardley,2016-03-14 The triangle a cube conserves a circle **The Pythagorean Theorem** Merle A. Barlow,2016-02-05 Pythagoras a famous Greek scholar sathematician and philosopher formulated a proof for a theorem that is named for him the Pythagorean theorem This theorem states that in any right triangle the square of the hypotenuse is equal to the sum of the squares of the other two sides The Pythagorean theorem for right angled triangles likely was known long before the time of Pythagoras It was probably used by the ancient Egyptians to construct the pyramids The theorem is quite believable without rigorous proof to anyone willing to expend a modest effort in some experimentation One method is to draw a number of right angled triangles in as wide a variety as practicable and measure all of the sides It will be determined that for each triangle drawn the square of the length of the side opposite the right angle is about equal to the sum of the lengths of the squares of the other two sides Another method requires the availability of a balance For this more interesting experiment construct a right angled triangle and a square on each side using a piece of sheet metal or cardboard Then cut out the three squares and weigh them on the balance The square on the hypotenuse should balance the other two Contained within this book are some rigorous proofs and some interesting perspectives regarding right angles and right angled triangles Doubtless this theorem is one of the most useful concepts in mathematics *An Introduction to the Pythagorean Theorem* David Fidkin,1993-04-01 **The Pythagorean Theorem** Sidney J. Kolpas,1992 *The Pythagorean Proposition* Elisha Scott Loomis,1927 **Looking for Pythagoras** Glenda Lappan,James T. Fey,1997-02 **The Pythagorean Theorem** Dale Seymour,Sidney J. Kolpas,1992

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