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Math worksheet on *'Pythagorean Equation from Variables - Either Missing Length (Radical) (Level 1)'*. Part of a broader unit on *'Pythagoras - Foundations'*
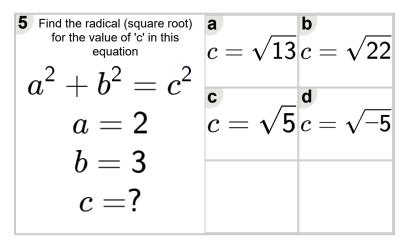
Learn online: app.mobius.academy/math/units/pythagoras_foundations/

1 Find the radical (square root) for the value of 'c' in this equation

$$a^2 + b^2 = c^2$$
$$a = 2$$
$$b = 4$$
$$c = ?$$

a	b	c
$c = \sqrt{12}$	$c = \sqrt{20}$	$c = \sqrt{36}$

2 Find the radical (square root) for the value of 'c' in this equation

$$a^2 + b^2 = c^2$$
$$a = 3$$
$$b = 2$$
$$c = ?$$

a	b	c
$c = \sqrt{21}$	$c = \sqrt{13}$	$c = \sqrt{5}$

3

$$a^2 + b^2 = c^2$$
$$a = 4$$
$$b = 2$$
$$c = ?$$

Find the radical (square root) for the value of 'c' in this equation

a	b
$c = \sqrt{12}$	$c = \sqrt{20}$

4 Find the radical (square root) for the value of 'c' in this equation

$$a^2 + b^2 = c^2$$
$$a = 4$$
$$b = 6$$
$$c = ?$$

a	b
$c = \sqrt{124}$	$c = \sqrt{20}$
c	
$c = \sqrt{52}$	

5 Find the radical (square root) for the value of 'c' in this equation

$$a^2 + b^2 = c^2$$
$$a = 2$$
$$b = 3$$
$$c = ?$$

a	b
$c = \sqrt{13}$	$c = \sqrt{22}$
c	**d**
$c = \sqrt{5}$	$c = \sqrt{-5}$

6 Find the radical (square root) for the value of 'c' in this equation

$$a^2 + b^2 = c^2$$
$$a = 4$$
$$b = 5$$
$$c = ?$$

a	b
$c = \sqrt{9}$	$c = \sqrt{41}$
c	
$c = \sqrt{-9}$	

7 Find the radical (square root) for the value of 'c' in this equation

$$a^2 + b^2 = c^2$$
$$a = 5$$
$$b = 4$$
$$c = ?$$

a	b	c
$c = \sqrt{41}$	$c = \sqrt{9}$	$c = \sqrt{57}$