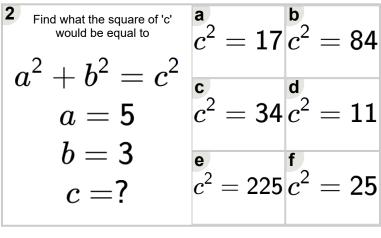# mobius

Math worksheet on *'Pythagorean Equation from Variables - Length of Hypotenuse (Squared Values) (Level 1)'*. Part of a broader unit on *'Pythagoras - Foundations'*

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1 Find what the square of 'c' would be equal to

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

a	b
$c^2 = 40$	$c^2 = 64$
c	**d**
$c^2 = 94$	$c^2 = 78$
e	**f**
$c^2 = 30$	$c^2 = 144$

2 Find what the square of 'c' would be equal to

$$a^2 + b^2 = c^2$$
$$a = 5$$
$$b = 3$$
$$c = ?$$

a	b
$c^2 = 17$	$c^2 = 84$
c	**d**
$c^2 = 34$	$c^2 = 11$
e	**f**
$c^2 = 225$	$c^2 = 25$

3 Find what the square of 'c' would be equal to

$$a^2 + b^2 = c^2$$
$$a = 6$$
$$b = 3$$
$$c = ?$$

a	b
$c^2 = 18$	$c^2 = 101$
c	**d**
$c^2 = 85$	$c^2 = 45$
e	**f**
$c^2 = 57$	$c^2 = 70$

4 Find what the square of 'c' would be equal to

$$a^2 + b^2 = c^2$$
$$a = 3$$
$$b = 5$$
$$c = ?$$

a	b	c
$c^2 = 25$	$c^2 = 70$	$c^2 = 45$
d	**e**	**f**
$c^2 = 11$	$c^2 = 34$	$c^2 = 16$

5 Find what the square of 'c' would be equal to

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

a	b	c
$c^2 = 8$	$c^2 = 21$	$c^2 = 50$
d	**e**	**f**
$c^2 = 62$	$c^2 = 14$	$c^2 = 29$

6 Find what the square of 'c' would be equal to

$$a^2 + b^2 = c^2$$
$$a = 3$$
$$b = 4$$
$$c = ?$$

a	b	c
$c^2 = 7$	$c^2 = 25$	$c^2 = 17$
d	**e**	**f**
$c^2 = 6$	$c^2 = 49$	$c^2 = 45$

7 Find what the square of 'c' would be equal to

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

a	b	c
$c^2 = 16$	$c^2 = 1$	$c^2 = 13$
d	**e**	**f**
$c^2 = 38$	$c^2 = 2$	$c^2 = 8$