



Math worksheet on 'Pythagorean Equation from Variables - Either Missing Length (Integer) (Level 2)'. Part of a broader unit on 'Pythagoras - Foundations'

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**1** Find the value of 'b' in this equation

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

$$a = 12$$

$$b = ?$$

$$c = 20$$

<b>a</b> b = 11	<b>b</b> b = 17
<b>c</b> b = 14	<b>d</b> b = 15
<b>e</b> b = 240	<b>f</b> b = 16

**2** Find the value of 'c' in this equation

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

$$a = 12$$

$$b = 9$$

$$c = ?$$

<b>a</b> c = 17	<b>b</b> c = 13
<b>c</b> c = 8	<b>d</b> c = 15
<b>e</b> c = 18	<b>f</b> c = 12

**3** Find the value of 'c' in this equation

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

$$a = 6$$

$$b = 8$$

$$c = ?$$

<b>a</b> c = 48	<b>b</b> c = 8
<b>c</b> c = 5	<b>d</b> c = 7
<b>e</b> c = 13	<b>f</b> c = 10

**4** Find the value of 'a' in this equation

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

$$a = ?$$

$$b = 12$$

$$c = 20$$

<b>a</b> a = 21	<b>b</b> a = 15
<b>c</b> a = 16	<b>d</b> a = 240
<b>e</b> a = 19	<b>f</b> a = 20

**5** Find the value of 'a' in this equation

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

$$a = ?$$

$$b = 3$$

$$c = 5$$

<b>a</b> a = 2	<b>b</b> a = 5
<b>c</b> a = 3	<b>d</b> a = 15
<b>e</b> a = 8	<b>f</b> a = 4

**6** Find the value of 'a' in this equation

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

$$a = ?$$

$$b = 4$$

$$c = 5$$

<b>a</b> a = 4	<b>b</b> a = 5
<b>c</b> a = 1	<b>d</b> a = 6
<b>e</b> a = 3	<b>f</b> a = 20

**7** Find the value of 'a' in this equation

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

$$a = ?$$

$$b = 8$$

$$c = 10$$

<b>a</b> a = 4	<b>b</b> a = 7
<b>c</b> a = 6	<b>d</b> a = 8
<b>e</b> a = 18	<b>f</b> a = 10