



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

Learn online: [app.mobius.academy/math/units/pythagoras\\_foundations/](http://app.mobius.academy/math/units/pythagoras_foundations/)

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

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

$$a = 12$$

$$b = ?$$

$$c = 20$$

**a**

$$b = 11$$

**b**

$$b = 17$$

**c**

$$b = 14$$

**d**

$$b = 15$$

**e**

$$b = 240$$

**f**

$$b = 16$$

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

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

$$a = 12$$

$$b = 9$$

$$c = ?$$

**a**

$$c = 17$$

**b**

$$c = 13$$

**c**

$$c = 8$$

**d**

$$c = 15$$

**e**

$$c = 18$$

**f**

$$c = 12$$

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

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

$$a = 6$$

$$b = 8$$

$$c = ?$$

**a**

$$c = 48$$

**b**

$$c = 8$$

**c**

$$c = 5$$

**d**

$$c = 7$$

**e**

$$c = 13$$

**f**

$$c = 10$$

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

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

$$a = ?$$

$$b = 12$$

$$c = 20$$

**a**

$$a = 21$$

**b**

$$a = 15$$

**c**

$$a = 16$$

**d**

$$a = 240$$

**e**

$$a = 19$$

**f**

$$a = 20$$

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

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

$$a = ?$$

$$b = 3$$

$$c = 5$$

**a**

$$a = 2$$

**b**

$$a = 5$$

**c**

$$a = 3$$

**d**

$$a = 15$$

**e**

$$a = 8$$

**f**

$$a = 4$$

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

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

$$a = ?$$

$$b = 4$$

$$c = 5$$

**a**

$$a = 4$$

**b**

$$a = 5$$

**c**

$$a = 1$$

**d**

$$a = 6$$

**e**

$$a = 3$$

**f**

$$a = 20$$

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

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

$$a = ?$$

$$b = 8$$

$$c = 10$$

**a**

$$a = 4$$

**b**

$$a = 7$$

**c**

$$a = 6$$

**d**

$$a = 8$$

**e**

$$a = 18$$

**f**

$$a = 10$$