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

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

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

| a | b |
|---|---|
| a = 7 | a = 4 |
| **c** | **d** |
| a = 15 | a = 8 |
| **e** | **f** |
| a = 2 | a = 6 |

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

$$a^2 + b^2 = c^2$$
$$a = ?$$
$$b = 8$$
$$c = 10$$

| a | b |
|---|---|
| a = 6 | a = 7 |
| **c** | **d** |
| a = 5 | a = 8 |
| **e** | **f** |
| a = 10 | a = 80 |

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

$$a^2 + b^2 = c^2$$
$$a = ?$$
$$b = 12$$
$$c = 13$$

| a | b |
|---|---|
| a = 3 | a = 5 |
| **c** | **d** |
| a = 25 | a = 2 |
| **e** | **f** |
| a = 6 | a = 156 |

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

$$a^2 + b^2 = c^2$$
$$a = 12$$
$$b = ?$$
$$c = 13$$

| a | b |
|---|---|
| b = 5 | b = 156 |
| **c** | **d** |
| b = 4 | b = 7 |
| **e** | **f** |
| b = 3 | b = 1 |

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

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

| a | b |
|---|---|
| a = 1 | a = 3 |
| **c** | **d** |
| a = 2 | a = 20 |
| **e** | **f** |
| a = 5 | a = 9 |

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

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

| a | b |
|---|---|
| b = 4 | b = 15 |
| **c** | **d** |
| b = 2 | b = 3 |
| **e** | **f** |
| b = 6 | b = 5 |

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

$$a^2 + b^2 = c^2$$
$$a = 6$$
$$b = ?$$
$$c = 10$$

| a | b |
|---|---|
| b = 8 | b = 4 |
| **c** | **d** |
| b = 12 | b = 16 |
| **e** | **f** |
| b = 5 | b = 6 |