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Math worksheet on *'Pythagorean Equation from Squares - Length of Side (Integer) (Level 2)'*. Part of a broader unit on *'Pythagoras - Foundations'*

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

$$a^2 + 6^2 = 10^2$$

| | | | |
|---|---|---|---|
| **a** | a = 9 | **b** | a = 60 |
| **c** | a = 8 | **d** | a = 10 |
| **e** | a = 5 | **f** | a = 7 |

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

$$a^2 + 9^2 = 15^2$$

| | | | |
|---|---|---|---|
| **a** | a = 12 | **b** | a = 135 |
| **c** | a = 9 | **d** | a = 10 |
| **e** | a = 15 | **f** | a = 24 |

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

$$a^2 + 3^2 = 5^2$$

| | | | |
|---|---|---|---|
| **a** | a = 2 | **b** | a = 8 |
| **c** | a = 5 | **d** | a = 4 |
| **e** | a = 1 | **f** | a = 15 |

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

$$9^2 + b^2 = 15^2$$

| | | | |
|---|---|---|---|
| **a** | b = 12 | **b** | b = 13 |
| **c** | b = 14 | **d** | b = 7 |
| **e** | b = 15 | **f** | b = 11 |

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

$$6^2 + b^2 = 10^2$$

| | | | |
|---|---|---|---|
| **a** | b = 10 | **b** | b = 8 |
| **c** | b = 6 | **d** | b = 5 |
| **e** | b = 16 | **f** | b = 9 |

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

$$5^2 + b^2 = 13^2$$

| | | | |
|---|---|---|---|
| **a** | b = 18 | **b** | b = 12 |
| **c** | b = 7 | **d** | b = 14 |
| **e** | b = 13 | **f** | b = 16 |

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

$$8^2 + b^2 = 10^2$$

| **a** | **b** | **c** | **d** | **e** | **f** |
|---|---|---|---|---|---|
| b = 7 | b = 3 | b = 8 | b = 6 | b = 1 | b = 4 |