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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

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

| a | b | c |
|---|---|---|
| $c^2 = 26$ | $c^2 = 18$ | $c^2 = 58$ |
| **d** | **e** | **f** |
| $c^2 = 3$ | $c^2 = 1$ | $c^2 = 35$ |

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

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

| a | b |
|---|---|
| $c^2 = 18$ | $c^2 = 45$ |
| **c** | **d** |
| $c^2 = 57$ | $c^2 = 81$ |
| **e** | **f** |
| $c^2 = 101$ | $c^2 = 11$ |

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

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

| a | b | c |
|---|---|---|
| $c^2 = 36$ | $c^2 = 38$ | $c^2 = 8$ |
| **d** | **e** | **f** |
| $c^2 = 13$ | $c^2 = 4$ | $c^2 = 1$ |

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

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

| a | b |
|---|---|
| $c^2 = 8$ | $c^2 = 92$ |
| **c** | **d** |
| $c^2 = 625$ | $c^2 = 63$ |
| **e** | **f** |
| $c^2 = 50$ | $c^2 = 109$ |

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

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

| a | b | c |
|---|---|---|
| $c^2 = 28$ | $c^2 = 4$ | $c^2 = 36$ |
| **d** | **e** | **f** |
| $c^2 = 1$ | $c^2 = 20$ | $c^2 = 64$ |

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

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

| a | b | c |
|---|---|---|
| $c^2 = 80$ | $c^2 = 31$ | $c^2 = 65$ |
| **d** | **e** | **f** |
| $c^2 = 41$ | $c^2 = 9$ | $c^2 = 5$ |

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

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

| a | b | c |
|---|---|---|
| $c^2 = 49$ | $c^2 = 1$ | $c^2 = 25$ |
| **d** | **e** | **f** |
| $c^2 = 3$ | $c^2 = 6$ | $c^2 = 57$ |