

Solving Quadratic Equations in Word Problems – www.m4ths.com – Steve Blades

1. A rectangular piece of card has one side length a metre longer than the other. The area of the rectangle is 30 square metres. Set up and solve an equation to find the dimensions of the rectangle.
2. A right-angled triangle has one side length of $(t-3)$ and one of $(t+4)$. Give that the area of the triangle is 4 square units and these sides are the two shorter sides: (a) set up and solve an equation to find the side lengths and (b) find the perimeter of the triangle
3. The product of two consecutive integers is 72. Set up and solve an equation to find the two numbers.
4. Two shorter sides of a right-angled triangle have a difference in length of 2 units. Given that the hypotenuse of the triangle is 10 units, set up and solve an equation to find the missing side lengths.

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