

Quadratic Equation Word Problems

scan for answers



Chapter 7: Worksheet 11

Level 1 - Create and solve simple quadratic equations

Level 2 - Create and solve quadratic equations where factoring is required

Level 1

Create an equation and solve.

a) Find two consecutive positive integers whose product is 6.

g) Three siblings have an age difference of one year between each of them. The square of the youngest's age is 4 more than 8 times the age of the oldest. How old are the three children?

Level 2

Create and solve quadratic equations where factoring is required.

a) A ball is thrown upward from the top of a building that is 10 meters tall. Its height h in meters after t seconds is given by the equation: $h = -2t^2 + 8t + 10$. When does the ball hit the ground?

b) The hypotenuse of a right triangle is 13 cm. One of the other two sides is 7 cm longer than the other. Determine the lengths of these two sides.