

M A T H E M A T I C S 9

Name: _____

Score: _____

Grade Level/Section: _____

Date: _____

WORKSHEET

Solving Quadratic Equation ($a = 1$) by Factoring

Directions: Write the quadratic equations ($a = 1$) in factored form and solve for the roots of the equation.

1.) $x^2 + 5x + 6 = 0$

Factored form: _____

Roots: $x_1 =$ _____ $x_2 =$ _____

2.) $x^2 - 14x + 24 = 0$

Factored form: _____

Roots: $x_1 =$ _____ $x_2 =$ _____

3.) $x^2 - 2x - 8 = 0$

Factored form: _____

Roots: $x_1 =$ _____ $x_2 =$ _____

4.) $x^2 - 7x + 12 = 0$

Factored form: _____

Roots: $x_1 =$ _____ $x_2 =$ _____

A rectangle has a length of five inches more than its width. Its area is 24 square inches. Find the dimensions of the rectangle.

Dimensions: *width* = _____ *in.* , *length* = _____ *in.*

Reference: Grade 9 Learning Module for Junior High School Mathematics