

Name : \_\_\_\_\_

## Quadratic Equation | Factoring

ES1

Solve each quadratic equation using factoring.

1)  $v^2 + 5v + 6 = 0$

2)  $g^2 - 3g = 4$

3)  $w^2 + 4w = 0$

4)  $s^2 - 8s + 12 = 0$

5)  $x^2 + 2x - 35 = 0$

6)  $r(r + 2) = 99$

7)  $k(k - 4) = -3$

8)  $t^2 + 3t + 2 = 0$

9)  $m^2 - 81 = 0$

10)  $h^2 - 17h + 70 = 0$

Name : \_\_\_\_\_

## Answer key

### Quadratic Equation | Factoring

ES1

Solve each quadratic equation using factoring.

1)  $v^2 + 5v + 6 = 0$

**$v = -3 ; v = -2$**

2)  $g^2 - 3g = 4$

**$g = -1 ; g = 4$**

3)  $w^2 + 4w = 0$

**$w = -4 ; w = 0$**

4)  $s^2 - 8s + 12 = 0$

**$s = 2 ; s = 6$**

5)  $x^2 + 2x - 35 = 0$

**$x = -7 ; x = 5$**

6)  $r(r + 2) = 99$

**$r = -11 ; r = 9$**

7)  $k(k - 4) = -3$

**$k = 1 ; k = 3$**

8)  $t^2 + 3t + 2 = 0$

**$t = -1 ; t = -2$**

9)  $m^2 - 81 = 0$

**$m = \pm 9$**

10)  $h^2 - 17h + 70 = 0$

**$h = 7 ; h = 10$**