

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

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

---

## Solve Quadratics by Factoring

Find all possible values of the given variable.

1)  $d^2 + 10d + 1 = -8$

6)  $g^2 + 6g = 40$

2)  $g^2 + 15g + 20 = -36$

7)  $n^2 + 22n + 85 = -35$

3)  $z^2 + 12z = -27$

8)  $g^2 - 7g = 8$

4)  $p^2 - 11p + 110 = 110$

9)  $r^2 - 9r = -14$

5)  $m^2 - 9m + 9 = 9$

10)  $z^2 - 15z + 6 = -38$



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

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

## Solve Quadratics by Factoring

Find all possible values of the given variable.

1)  $d^2 + 10d + 1 = -8$

$d = \{-1, -9\}$

6)  $g^2 + 6g = 40$

$g = \{-10, 4\}$

2)  $g^2 + 15g + 20 = -36$

$g = \{-7, -8\}$

7)  $n^2 + 22n + 85 = -35$

$n = \{-10, -12\}$

3)  $z^2 + 12z = -27$

$z = \{-3, -9\}$

8)  $g^2 - 7g = 8$

$g = \{8, -1\}$

4)  $p^2 - 11p + 110 = 110$

$p = \{11, 0\}$

9)  $r^2 - 9r = -14$

$r = \{2, 7\}$

5)  $m^2 - 9m + 9 = 9$

$m = \{9, 0\}$

10)  $z^2 - 15z + 6 = -38$

$z = \{4, 11\}$

