Math 2   Name_____
Solving Quadratic Equations   Date_____ Period_____

Solve each equation by factoring.

1) $b^2 + 6b + 8 = 0$

2) $p^2 + 10p + 16 = 0$

3) $x^2 - 9x + 18 = 0$

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

5) $a^2 + a = 0$

6) $a^2 + a - 56 = 0$

7) $p^2 - 4p + 3 = 0$

8) $m^2 - 5m + 4 = 0$

9) $p^2 + 2p - 48 = 0$

10) $x^2 + 8x + 12 = 0$

Solve each equation by completing the square.

11) $x^2 + 12x + 11 = 0$

12) $p^2 + 16p - 17 = 0$

13) $7a^2 + 14a - 56 = 0$

14) $2v^2 + 20v - 98 = 0$

15) $4k^2 + 8k - 5 = 0$

Answers to Solving Quadratic Equations

1) $\{-2, -4\}$

2) $\{-2, -8\}$

3) $\{3, 6\}$

4) $\{-3, 0\}$

5) $\{-1, 0\}$

6) $\{-8, 7\}$

7) $\{1, 3\}$

8) $\{1, 4\}$

9) $\{6, -8\}$

10) $\{-2, -6\}$

11) $\{-1, -11\}$

12) $\{1, -17\}$

13) $\{2, -4\}$

14) $\{-5 + \sqrt{74}, -5 - \sqrt{74}\}$

15) $\left\{\dfrac{1}{2}, -2\dfrac{1}{2}\right\}$