

## 2.5B Factoring and using factoring to solve a quadratic equation

Period \_\_\_\_\_

**Factor each completely.**

1)  $x^2 - 15x + 54$

2)  $p^2 - 6p - 7$

3)  $p^2 + 7p + 12$

4)  $a^2 - a - 12$

5)  $x^2 + 6x + 8$

6)  $v^2 - v - 6$

7)  $r^2 + 2r - 15$

8)  $r^2 - 12r + 20$

9)  $v^2 + 7v - 8$

10)  $a^2 + 9a - 10$

**Solve each equation by factoring.**

11)  $(n + 3)(5n - 1) = 0$

12)  $(r - 2)(r - 4) = 0$

13)  $(k - 5)(k - 4) = 0$

14)  $(5n + 4)(n + 2) = 0$

15)  $x^2 - 7x + 12 = 0$

16)  $x^2 - 3x + 2 = 0$

17)  $b^2 - 2b - 15 = 0$

18)  $n^2 + 2n - 8 = 0$