# Sect. 3.5 Worksheet #1

Expand and simplify. Use the model of your choice. If you are using algebra tiles you must DRAW the tiles to show your work!!

1. $(x + 2)(x + 3)$

   $x^2 + 5x + 6$

2. $(y - 5)(y - 1)$

   $y^2 - 6y + 5$

3. $(r - 10)(r - 11)$

   $r^2 - 21r + 110$

4. $(5 + x)(5 + x)$

   $25 + 10x + x^2$

5. $(7 - y)(7 - y)$

   $49 - 14y + y^2$

6. $(x - 8)(x - 7)$

   $x^2 - 15x + 56$

7. $(y - 5)(y - 8)$

   $y^2 - 13y + 40$

8. $(x + 3)(x + 7)$

   $x^2 + 10x + 21$

9. $(12 + h)(7 - h)$

   $84 - 5h - h^2$

10. $(k - 3)(k + 11)$

    $k^2 + 8k - 33$

11. $(m + 1)(m + 1)$

    $m^2 + 2m + 1$

12. $(b - 3)(b - 7)$

    $b^2 - 10b + 21$

13. $(a + 5)(a + 4)$

    $a^2 + 9a + 20$

14. $(8 - x)(7 + x)$

    $56 + x - x^2$