Working with Integer Coefficients

Name: _____ Date: _____

Section A: Simplify these expressions by collecting like terms

1. $5x + 3x - 2x =$ _____
2. $7y - 4y + 9y =$ _____
3. $-3a + 8a - 5a =$ _____
4. $6m - 2n + 4m + 7n =$ _____
5. $-5p + 3q - 2p - 6q =$ _____
6. $8x - 12 + 3x + 7 =$ _____

Section B: Expand and simplify these expressions

7. $3(x + 4) =$ _____
8. $-2(y - 5) =$ _____
9. $4(2a - 3) + 5 =$ _____
10. $-3(m + 2) + 4(m - 1) =$ _____

Section C: Solve these equations

11. $2x + 5 = 13$

    $x =$ _____

12. $-3y + 7 = -8$

    $y =$ _____

13. $5a - 12 = -27$

    $a =$ _____

14. $4x + 6 = 2x + 18$

    $x =$ _____

15. $7 - 2m = 3m + 22$

    $m =$ _____

Section D: Challenge

16. Solve: $3(x - 4) = 2(x + 5)$

$x =$ _____

17. Solve: $-2(y + 3) + 5y = 12$

$y =$ _____