

Name: _____

Solving Multi – Step Equations

A) Solve each equation.

1) $-a + 6(a + 4) = 3(a + 5) + 1$

2) $2(f + 3) + 2.7 = 3(f - 1.1)$

3) $7(r + 8) - 4 = -4(-7 - r)$

4) $3(s - 2) = 3(4s + 4)$

5) $1.6 - 4.3y = 5.2 + 2.3y$

6) $2(3n + 5) - 3(1 + n) = 5$

7) $2 + n + 5(3n + 5) = 7n + 11 + 4n$

B) Solve each problem by working backward.

8) A number is divided by 2, and then the quotient is added to 8. The result is 33. Find the number.

9) Two is subtracted from a number, and then the difference is divided by 3. The result is 30. Find the number.

10) A number is multiplied by 2, and then the product is added to 9. The result is 49. What is the number?

11) Twice a number plus four equals 6. What is the number?

12) Sixteen is seven plus three times a number. Find the number.