

Name: _____

Period: _____ Date: _____

Learning to Solve 2 Step Equations **Answers**

Solve for the variable (hint problems 1 – 8 will have the same answer for a, b, and c)

1a. $x + 8 = 15$

$x = 7$

1b. $2x = 14$

$x = 7$

1c. $2x + 8 = 22$

$x = 7$

2a. $k - 3 = 9$

$k = 12$

2b. $4k = 48$

$k = 12$

2c. $4k - 3 = 45$

$k = 12$

3a. $d - 6 = -10$

$d = -4$

3b. $7d = -28$

$d = -4$

3c. $7d - 6 = -34$

$d = -4$

4a. $m - 14 = -17$

$m = -3$

4b. $-8m = 24$

$m = -3$

4c. $-8m - 14 = 10$

$m = -3$

5a. $w - 23 = 59$

$w = 82$

5b. $-3w = -246$

$w = 82$

5c. $-3w - 23 = -269$

$w = 82$

6a. $x - 57 = 15$

$x = 72$

6b. $\frac{x}{8} = 9$

$x = 72$

6c. $\frac{x}{8} - 57 = -48$

$x = 72$

7a. $x - 31 = -7$

$x = 24$

7b. $\frac{x}{-6} = -4$

$x = 24$

7c. $\frac{x}{-6} - 31 = -35$

$x = 24$

8a. $x + 51 = -9$

$x = -60$

8b. $\frac{x}{-5} = 12$

$x = -60$

8c. $\frac{x}{-5} + 51 = 63$

$x = -60$

9a. $x + 6 = -8$

$x = -14$

9b. $8x = 56$

$x = 7$

9c. $8x + 6 = 22$

$x = 2$

10a. $x - 12 = 11$

$x = 23$

10b. $-3x = -21$

$x = 7$

10c. $-3x - 12 = -39$

$x = 9$

11a. $x - 14 = -9$

$x = 5$

11b. $-6x = 42$

$x = -7$

11c. $-6x - 14 = 10$

$x = -4$

12a. $x + 32 = 18$

$x = -14$

12b. $9x = -99$

$x = -11$

12c. $9x + 32 = -31$

$x = -7$

13a. $x - 52 = 38$

$x = 90$

13b. $-12x = 48$

$x = -4$

13c. $-12x - 52 = -124$

$x = 6$

14a. $x + 15 = 36$

$x = 21$

14b. $\frac{x}{6} = 7$

$x = 42$

14c. $\frac{x}{6} + 15 = 19$

$x = 24$

15a. $x - 21 = -8$

$x = 13$

15b. $\frac{x}{-3} = -18$

$x = 54$

15c. $\frac{x}{-3} - 21 = -30$

$x = 27$

16a. $x - 16 = -57$

$x = -41$

16b. $\frac{x}{-5} = 6$

$x = -30$

16c. $\frac{x}{-5} - 16 = -5$

$x = -55$

17a. $x + 17 = 8$

$x = -9$

17b. $\frac{x}{-15} = -4$

$x = 60$

17c. $\frac{x}{-15} + 17 = 9$

$x = 120$