

Review - Solving Multi-Step Equations

1) $d - 5.5 = -3.4$

$+5.5 \quad +5.5$

$d = 2.1$

2) $15 = b + 8.7$

$-8.7 \quad -8.7$

$6.3 = b$

3) $-2.5 = \frac{h}{8} \cdot 8$

$-20 = h$

4) $-0.3j = 2.4$

$-0.3 \quad -0.3$

$j = -8$

5) $2x + 10 = 34$

$-10 \quad -10$

$\frac{2x}{2} = \frac{24}{2}$

$x = 12$

6) $-12 + \frac{j}{4} = 15$

$+12 \quad +12$

$4 \cdot \frac{j}{4} = 27 \cdot 4$

$j = 108$

7) $7x + 9 = -12$

$-9 \quad -9$

$\frac{7x}{7} = \frac{-21}{7}$

$x = -3$

8) $-52 = -5b - 8b$

$-52 = -13b$
 $-13 \quad -13$

$4 = b$

9) $3 + 4x + 6 = 41$

$$4x + 9 = 41$$

$$-9 \quad -9$$

$$\frac{4x}{4} = \frac{32}{4}$$

$$\boxed{x = 8}$$

10) $6k - 1 + 6k = 47$

$$12k - 1 = 47$$

$$+1 \quad +1$$

$$\frac{12k}{12} = \frac{48}{12}$$

$$\boxed{k = 4}$$

11) $r + 11 + 7r = 67$

$$8r + 11 = 67$$

$$-11 \quad -11$$

$$\frac{8r}{8} = \frac{56}{8}$$

$$\boxed{r = 7}$$

12) $99 = 3(3x - 6)$

$$99 = 9x - 18$$

$$+18 \quad +18$$

$$\frac{117}{9} = \frac{9x}{9}$$

$$\boxed{13 = x}$$

13) $-5(6n + 6) = -300$

$$-30n - 30 = -300$$

$$+30 \quad +30$$

$$\frac{-30n}{-30} = \frac{-270}{-30}$$

$$\boxed{n = 9}$$

14) $87 = -3 + 5(b + 6)$

$$87 = -3 + 5b + 30$$

$$87 = 5b + 27$$

$$-27 \quad -27$$

$$\frac{60}{5} = \frac{5b}{5}$$

$$\boxed{12 = b}$$

15) $-13 = 5(1 + 4m) - 2m$

$$-13 = 5 + 20m - 2m$$

$$-13 = 5 + 18m$$

$$-5 \quad -5$$

$$\frac{-18}{18} = \frac{18m}{18}$$

$$\boxed{-1 = m}$$

16) $3(v - 2) + 2(4 + 2v) = 37$

$$3v - 6 + 8 + 4v = 37$$

$$7v + 2 = 37$$

$$-2 \quad -2$$

$$\frac{7v}{7} = \frac{35}{7}$$

$$\boxed{v = 5}$$