

## LITERAL EQUATIONS WORKSHEET

Solve for the indicated variable in the parenthesis.

1)  $P = IRT$  ( $T$ )

2)  $A = 2(L + W)$  ( $W$ )

3)  $y = 5x - 6$  ( $x$ )

4)  $2x - 3y = 8$  ( $y$ )

5)  $\frac{x+y}{3} = 5$  ( $x$ )

6)  $y = mx + b$  ( $b$ )

7)  $ax + by = c$  ( $y$ )

8)  $A = 1/2h(b + c)$  ( $b$ )

Solve each equation. Check your solution.

41.  $2p + 15 = 29$

42.  $14 - 3n = -10$

43.  $7a - 3a + 2a - a = 16$

44.  $x + 9x - 6x + 4x = 20$

45.  $\frac{1}{9} - \frac{2}{3}b = \frac{1}{18}$

46.  $\frac{5}{8} + \frac{3}{4}x = \frac{1}{16}$

47.  $27 = -9(y + 5)$

48.  $-7(p + 8) = 21$

49.  $3f - 2 = 4f + 5$

50.  $3d + 7 = 6d + 5$

Solve each inequality. Describe the solution set using set-builder or interval notation. Then graph the solution set on a number line.

4.  $a + 2 < 3.5$

5.  $5 \geq 3x$

6.  $11 - c \leq 8$

7.  $4y + 7 > 31$

8.  $2w + 19 < 5$

9.  $-0.6p < -9$

10.  $\frac{n}{12} + 15 \leq 13$

11.  $\frac{5z + 2}{4} < \frac{5z}{4} + 2$