

# Homework Answers

Name: Answer Key Period: \_\_\_\_\_

**Literal Equations Worksheet**

Solve for the indicated variable in parenthesis.

1)  $\frac{P}{IR} = \frac{IRT}{IR}$  (T)  
 $\frac{P}{IR} = T$

2)  $\frac{A}{2} = \frac{2(L+W)}{2}$  (W)  
 $\frac{A}{2} = L+W$   
 $\frac{A}{2} - L = W$

3)  $y = 5x - 6$  (x)  
 $y+6 = 5x-6+6$   
 $\frac{y+6}{5} = \frac{5x}{5}$   
 $\frac{y+6}{5} = x$

4)  $2x - 3y = 8$  (y)  
 $-3y = 8 - 2x$   
 $\frac{-3y}{-3} = \frac{8-2x}{-3}$   
 $y = \frac{8-2x}{-3}$

5)  $\frac{x+y}{3} = 5-3$  (x)  
 $x+y = 15$   
 $-y -y$   
 $x = 15 - y$

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

*Area of Rectangle!*

*Slope-intercept form!*

# Homework Answers

7)  $ax + by = c$  (y)  
 $-ax -ax$   
 $\frac{by}{b} = \frac{c-ax}{b}$   
 $y = \frac{c-ax}{b}$

8)  $A = \frac{1}{2}h(b+c)$  (b)  
 $A = \frac{1}{2}h(b+c)$   
 $2 \cdot \frac{A}{h} = \frac{1}{2}(b+c) \cdot 2$   
 $\frac{2A}{h} = b+c \rightarrow \frac{2A}{h} - c = b$

9)  $V = LWH$  (L)  
 $\frac{V}{WH} = \frac{LWH}{WH}$   
 $\frac{V}{WH} = L$  *Volume!*

10)  $A = 4\pi r^2$  (r)  
 $\frac{A}{4\pi} = \frac{4\pi r^2}{4\pi}$   
 $\frac{A}{4\pi} = r^2$  *surface area of a sphere!*