

## Balancing More Equations

Date \_\_\_\_\_ Period \_\_\_\_\_

Solve each equation.

1)  $-87 = -3v - 6(v + 4)$

2)  $-318 = 6(3 + 8x)$

3)  $132 = 6a + 7(a + 4)$

4)  $21 - 6x = -3(x - 5) - x$

5)  $-3(-4x - 6) + 1 = -1 + 2x$

6)  $-2(x + 5) = -(-3x - 4) - 3x$

7)  $6(7 + 4n) = 4n + 2(1 + 8n)$

8)  $-6x - 6x = -6(8 + 2x) + 8(-6 - 4x)$

9)  $\frac{2x + 6}{4} - 6 = 3$

10)  $\frac{4x - 4}{3} + 7 = 15$

11)  $\frac{2(x + 3)}{3} + 5 = 11$

12)  $\frac{3(x - 4)}{4} + 9 = 12$

13)  $A = lw$  Solve for  $w$

14)  $P = 2(l + w)$  Solve for  $w$

15)  $A = \frac{bh}{2}$  Solve for  $h$ .

16)  $V = lwh$  Solve for  $w$ .