

EMA

Solving Multi-Step Equations

Your Name Here: _____

Date: _____ Period: _____

Solve.

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

2.) $6 - 3(5 + 2n) = 4n + 11 - 7n$

3.) $-8(-8c - 6) = -6c - 22$

4.) $5(2c + 6) = -4(-5 - 2c) + 3$

5.) $-5(4m - 2) = -2(3 + 6m)$

6.) $-5(1 - 5y) + (-8y - 2) = -4y - 8y$

7.) $\frac{3}{2}t + \frac{1}{3} = \frac{2}{5}t - \frac{11}{15}$

8.) $6 - \frac{2}{3}\left(4x - \frac{3}{4}\right) = 4 - 3\left(x + \frac{3}{2}\right)$

Solve each equation for the specified variable.

9.) $A = 2l + 2w$; solve for w .

10.) $A = \pi r^2$; solve for r .

11.) $A = \frac{1}{2}(b_1 + b_2)h$; solve for b_1 .

12.) $V = \frac{4}{3}\pi r^3$; solve for r .

13.) $a(x - h)^2 + k = 0$; solve for x .

14.) $F = \frac{9}{5}C + 32$; solve for C .

15.) $y = mx + b$; solve for m .

16.) $V = \frac{1}{3}\pi r^2 h$; solve for h .