

Solving Multi-Step Equations

Distributive With Parentheses - Negative Coefficients

Name: _____ Date: _____



Solve the equations.

(1) $39 = 2x - 5(-3x + 16)$

(2) $198 = -4x + 2(-6x + 3)$

(3) $6x - 2(-3x - 5) = 154$

(4) $180 = 7x - 3(-6x + 15)$

(5) $-4x + 3(-3x - 2) = 59$

(6) $-3 = 3x + 6(-x + 3)$

(7) $7x + 2(5x - 16) = 70$

(8) $-6x - 4(-7x - 13) = -58$

(9) $14 = -3x - 2(-3x + 11)$

(10) $7x - 2(3x + 16) = -23$

Name _____

Mixed Review of Solving Equations

One Step Equations:

1) $x+7=8$

2) $x-3=41$

3) $-3x=48$

4) $\frac{x}{4}=-45$

5) $-x=6$

Two Step Equations

6) $3x+5=4$

7) $8-2x=30$

8) $2x+6x=48$

9) $6x+5-2x=-19$

Variables on Both Sides:

10) $4x=3x+5$

11) $3x+2=2x-6$

12) $6x+5x-4=2x-8$

Parenthesis:

13) $3(x+5)=8x$

14) $-2(x+7)=9x$

15) $9(3+x)=4(3+x)$

Mixed Practice

Solve for the variable and check your answers.

1) $\frac{b}{-5}=11$

2) $5x=9x-16$

3) $18n+12=27n+3$

4) $5(x+7)=6(x-5)$

5) $4(3-u)+u=22+2u$

6) $5c-4-2c+1=8c+2$