

Solving Multi-Step Equations

Like Terms - No Negative Coefficients

Name: _____ Date: _____



Solve the equations.

$$(1) \quad -7x - 27 + 9x = 33$$

$$(2) \quad -3x + 8x - 53 = 52$$

$$(3) \quad -28 + 11x - 9x = 30$$

$$(4) \quad -7x + 11x - 39 = 45$$

$$(5) \quad -24 - 10x + 12x = 28$$

$$(6) \quad x - 50 + 9x = 100$$

$$(7) \quad 2x - 16 + x = 29$$

$$(8) \quad -111 + 7x + 9x = 97$$

$$(9) \quad 5x + 4x - 91 = 80$$

$$(10) \quad x - 48 + 3x = 56$$

$$(11) \quad 5x - 2x - 21 = 42$$

$$(12) \quad 4x + 3x - 63 = 126$$

Solving Multi-Step Equations

Like Terms - No Negative Coefficients

ANSWER KEY



Solve the equations.

$$(1) \quad -7x - 27 + 9x = 33$$

$$\begin{aligned} -27 + 2x &= 33 \\ 2x &= 60 \\ x &= 30 \end{aligned}$$

$$(2) \quad -3x + 8x - 53 = 52$$

$$\begin{aligned} -53 + 5x &= 52 \\ 5x &= 105 \\ x &= 21 \end{aligned}$$

$$(3) \quad -28 + 11x - 9x = 30$$

$$\begin{aligned} -28 + 2x &= 30 \\ 2x &= 58 \\ x &= 29 \end{aligned}$$

$$(4) \quad -7x + 11x - 39 = 45$$

$$\begin{aligned} -39 + 4x &= 45 \\ 4x &= 84 \\ x &= 21 \end{aligned}$$

$$(5) \quad -24 - 10x + 12x = 28$$

$$\begin{aligned} -24 + 2x &= 28 \\ 2x &= 52 \\ x &= 26 \end{aligned}$$

$$(6) \quad x - 50 + 9x = 100$$

$$\begin{aligned} -50 + 10x &= 100 \\ 10x &= 150 \\ x &= 15 \end{aligned}$$

$$(7) \quad 2x - 16 + x = 29$$

$$\begin{aligned} -16 + 3x &= 29 \\ 3x &= 45 \\ x &= 15 \end{aligned}$$

$$(8) \quad -111 + 7x + 9x = 97$$

$$\begin{aligned} -111 + 16x &= 97 \\ 16x &= 208 \\ x &= 13 \end{aligned}$$

$$(9) \quad 5x + 4x - 91 = 80$$

$$\begin{aligned} -91 + 9x &= 80 \\ 9x &= 171 \\ x &= 19 \end{aligned}$$

$$(10) \quad x - 48 + 3x = 56$$

$$\begin{aligned} -48 + 4x &= 56 \\ 4x &= 104 \\ x &= 26 \end{aligned}$$

$$(11) \quad 5x - 2x - 21 = 42$$

$$\begin{aligned} -21 + 3x &= 42 \\ 3x &= 63 \\ x &= 21 \end{aligned}$$

$$(12) \quad 4x + 3x - 63 = 126$$

$$\begin{aligned} -63 + 7x &= 126 \\ 7x &= 189 \\ x &= 27 \end{aligned}$$