

Solving Two-Step Equations

Using Multiplication - Negative Coefficients

Name: _____ Date: _____



Solve the equations.

(1) $2 + \frac{x}{-11} = 7$

(2) $\frac{x}{-3} + 4 = -11$

(3) $\frac{x}{14} + 1 = 6$

(4) $2 + \frac{x}{2} = 13$

(5) $10 + \frac{x}{-5} = -4$

(6) $\frac{x}{4} - 5 = -13$

(7) $\frac{x}{7} - 1 = -4$

(8) $3 + \frac{x}{4} = -5$

(9) $\frac{x}{6} - 4 = -9$

(10) $-2 + \frac{x}{-4} = -11$

(11) $3 + \frac{x}{-8} = -3$

(12) $-1 + \frac{x}{-3} = 6$

(13) $-1 + \frac{x}{7} = 2$

(14) $\frac{x}{-2} + 9 = 22$

(15) $\frac{x}{12} - 1 = -4$

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ANSWER KEY



Solve the equations.

$$(1) \quad 2 + \frac{x}{-11} = 7$$
$$\frac{x}{-11} = 5$$
$$x = -55$$

$$(2) \quad \frac{x}{-3} + 4 = -11$$
$$\frac{x}{-3} = -15$$
$$x = 45$$

$$(3) \quad \frac{x}{14} + 1 = 6$$
$$\frac{x}{14} = 5$$
$$x = 70$$

$$(4) \quad 2 + \frac{x}{2} = 13$$
$$\frac{x}{2} = 11$$
$$x = 22$$

$$(5) \quad 10 + \frac{x}{-5} = -4$$
$$\frac{x}{-5} = -14$$
$$x = 70$$

$$(6) \quad \frac{x}{4} - 5 = -13$$
$$\frac{x}{4} = -8$$
$$x = -32$$

$$(7) \quad \frac{x}{7} - 1 = -4$$
$$\frac{x}{7} = -3$$
$$x = -21$$

$$(8) \quad 3 + \frac{x}{4} = -5$$
$$\frac{x}{4} = -8$$
$$x = -32$$

$$(9) \quad \frac{x}{6} - 4 = -9$$
$$\frac{x}{6} = -5$$
$$x = -30$$

$$(10) \quad -2 + \frac{x}{-4} = -11$$
$$\frac{x}{-4} = -9$$
$$x = 36$$

$$(11) \quad 3 + \frac{x}{-8} = -3$$
$$\frac{x}{-8} = -6$$
$$x = 48$$

$$(12) \quad -1 + \frac{x}{-3} = 6$$
$$\frac{x}{-3} = 7$$
$$x = -21$$

$$(13) \quad -1 + \frac{x}{7} = 2$$
$$\frac{x}{7} = 3$$
$$x = 21$$

$$(14) \quad \frac{x}{-2} + 9 = 22$$
$$\frac{x}{-2} = 13$$
$$x = -26$$

$$(15) \quad \frac{x}{12} - 1 = -4$$
$$\frac{x}{12} = -3$$
$$x = -36$$