

Solving Two-Step Equations

Multiplication & Division - Negative Coefficients

Name: _____ Date: _____



Solve the equations.

(1) $\frac{x}{5} - 3 = 5$

(2) $-11 + 4x = -31$

(3) $\frac{x}{8} - 4 = 1$

(4) $-67 + 8x = 29$

(5) $2x - 17 = 9$

(6) $-2 + \frac{x}{-6} = -6$

(7) $9x - 53 = -143$

(8) $\frac{x}{2} - 7 = 4$

(9) $1 + \frac{x}{-2} = -4$

(10) $32 - 8x = -16$

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

(12) $-6x - 25 = 11$

(13) $\frac{x}{13} - 2 = -5$

(14) $\frac{x}{7} + 2 = -3$

(15) $3x - 11 = 22$

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ANSWER KEY



Solve the equations.

$$(1) \quad \frac{x}{5} - 3 = 5$$

$$\frac{x}{5} = 8$$

$$x = 40$$

$$(2) \quad -11 + 4x = -31$$

$$4x = -20$$

$$x = -5$$

$$(3) \quad \frac{x}{8} - 4 = 1$$

$$\frac{x}{8} = 5$$

$$x = 40$$

$$(4) \quad -67 + 8x = 29$$

$$8x = 96$$

$$x = 12$$

$$(5) \quad 2x - 17 = 9$$

$$2x = 26$$

$$x = 13$$

$$(6) \quad -2 + \frac{x}{-6} = -6$$

$$\frac{x}{-6} = -4$$

$$x = 24$$

$$(7) \quad 9x - 53 = -143$$

$$9x = -90$$

$$x = -10$$

$$(8) \quad \frac{x}{2} - 7 = 4$$

$$\frac{x}{2} = 11$$

$$x = 22$$

$$(9) \quad 1 + \frac{x}{-2} = -4$$

$$\frac{x}{-2} = -5$$

$$x = 10$$

$$(10) \quad 32 - 8x = -16$$

$$-8x = -48$$

$$x = 6$$

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

$$\frac{x}{-3} = -5$$

$$x = 15$$

$$(12) \quad -6x - 25 = 11$$

$$-6x = 36$$

$$x = -6$$

$$(13) \quad \frac{x}{13} - 2 = -5$$

$$\frac{x}{13} = -3$$

$$x = -39$$

$$(14) \quad \frac{x}{7} + 2 = -3$$

$$\frac{x}{7} = -5$$

$$x = -35$$

$$(15) \quad 3x - 11 = 22$$

$$3x = 33$$

$$x = 11$$