

Solving Two-Step Equations

Multiplication & Division - Negative Coefficients

Name: _____ Date: _____



Solve the equations.

(1) $-3x + 20 = -10$

(2) $25 + 10x = -55$

(3) $-33 = 75 + 12x$

(4) $5 = \frac{x}{11} - 1$

(5) $8 = -6 - 2x$

(6) $\frac{x}{3} + 8 = 25$

(7) $-8x + 61 = -35$

(8) $17 = \frac{x}{5} + 6$

(9) $-6x - 21 = 27$

(10) $\frac{x}{-8} + 1 = -2$

(11) $1 + \frac{x}{-10} = -3$

(12) $10 = \frac{x}{5} + 2$

(13) $-63 + 9x = 27$

(14) $\frac{x}{4} - 5 = -12$

(15) $-5x + 18 = -42$

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ANSWER KEY



Solve the equations.

(1) $-3x + 20 = -10$

$$-3x = -30$$

$$x = 10$$

(2) $25 + 10x = -55$

$$10x = -80$$

$$x = -8$$

(3) $-33 = 75 + 12x$

$$-108 = 12x$$

$$-9 = x$$

(4) $5 = \frac{x}{11} - 1$

$$6 = \frac{x}{11}$$

$$66 = x$$

(5) $8 = -6 - 2x$

$$14 = -2x$$

$$-7 = x$$

(6) $\frac{x}{3} + 8 = 25$

$$\frac{x}{3} = 17$$

$$x = 51$$

(7) $-8x + 61 = -35$

$$-8x = -96$$

$$x = 12$$

(8) $17 = \frac{x}{5} + 6$

$$11 = \frac{x}{5}$$

$$55 = x$$

(9) $-6x - 21 = 27$

$$-6x = 48$$

$$x = -8$$

(10) $\frac{x}{-8} + 1 = -2$

$$\frac{x}{-8} = -3$$

$$x = 24$$

(11) $1 + \frac{x}{-10} = -3$

$$\frac{x}{-10} = -4$$

$$x = 40$$

(12) $10 = \frac{x}{5} + 2$

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

$$40 = x$$

(13) $-63 + 9x = 27$

$$9x = 90$$

$$x = 10$$

(14) $\frac{x}{4} - 5 = -12$

$$\frac{x}{4} = -7$$

$$x = -28$$

(15) $-5x + 18 = -42$

$$-5x = -60$$

$$x = 12$$