

Solving Two-Step Equations

Multiplication & Division - Negative Coefficients

ANSWER KEY



Solve the equations.

$$(1) \quad 8 - 2x = 38$$

$$-2x = 30$$

$$x = -15$$

$$(2) \quad -12 + \frac{x}{6} = -29$$

$$\frac{x}{6} = -17$$

$$x = -102$$

$$(3) \quad 9 = 4 + \frac{x}{21}$$

$$5 = \frac{x}{21}$$

$$105 = x$$

$$(4) \quad 45 = -87 - 11x$$

$$132 = -11x$$

$$-12 = x$$

$$(5) \quad -6x - 41 = -173$$

$$-6x = -132$$

$$x = 22$$

$$(6) \quad \frac{x}{20} + 2 = 5$$

$$\frac{x}{20} = 3$$

$$x = 60$$

$$(7) \quad -2 = 1 + \frac{x}{24}$$

$$-3 = \frac{x}{24}$$

$$-72 = x$$

$$(8) \quad 8x - 40 = -216$$

$$8x = -176$$

$$x = -22$$

$$(9) \quad -9x - 137 = 88$$

$$-9x = 225$$

$$x = -25$$

$$(10) \quad 7 = 3 + \frac{x}{-24}$$

$$4 = \frac{x}{-24}$$

$$-96 = x$$

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

$$\frac{x}{-4} = 14$$

$$x = -56$$

$$(12) \quad \frac{x}{-25} + 2 = -1$$

$$\frac{x}{-25} = -3$$

$$x = 75$$

$$(13) \quad 232 = 76 + 6x$$

$$156 = 6x$$

$$26 = x$$

$$(14) \quad -7 = -3 + \frac{x}{-16}$$

$$-4 = \frac{x}{-16}$$

$$64 = x$$

$$(15) \quad -16x + 124 = 300$$

$$-16x = 176$$

$$x = -11$$