

Two-Step Equations

Worksheet Contains Negatives

Solve each equation. Show all steps clearly.

- $x + 3 = -2$

- $-4w - 8 = -16$

- $2y - 5 = -7$

- $(v / 3) - 7 = -10$

- $-3z + 6 = 0$

- $(x + 4) / 2 = -3$

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Solve each equation. Show all steps clearly.

$$x + 3 = -2$$

Subtract 3 from both sides:

$$x + 3 - 3 = -2 - 3$$

$$x = -2 - 3$$

$$x = -1$$

$$-4w - 8 = -16$$

Add 8 to both sides:

$$-4w - 8 + 8 = -16 + 8$$

$$-4w = -16 + 8 = -8$$

$$w = (-8) / -4$$

$$w = 2$$

$$2y - 5 = -7$$

Add 5 from both sides:

$$2y - 5 + 5 = -7 + 5$$

$$2y = -2$$

$$y = -1$$

$$(v / 3) - 7 = -10$$

Add 7 to both sides:

$$(v / 3) - 7 + 7 = -10 + 7$$

$$v / 3 = -10 + 7 = -3$$

$$v = (-3) * 3$$

$$v = -9$$

$$-3z + 6 = 0$$

$$-3z + 6 = 0$$

$$-3z = -6$$

$$z = (-6) / (-3)$$

$$z = 2$$

$$(x + 4) / 2 = -3$$

Multiply both sides by 2:

$$((x + 4) / 2) * 2 = -3 * 2$$

$$x + 4 = -6$$

$$x = -6 - 4$$

$$x = -10$$