2-Step Equations

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Step 1: Add or Subtract the Constant (Do the opposite of What's there)

Step 2: Divide or Multiply
- ↓ by Coefficient
- ↳ by the Denominator

* Remember to do the Same thing to BOTH Sides of the equation.

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Examples

① $2x - 5 = 13$

$+5 \quad +5$

$\frac{2x}{2} = \frac{18}{2}$

$x = 9$

② $-4x + 8 = -20$

$-8 \quad -8$

$\frac{-4x}{-4} = \frac{-28}{-4}$

$x = 7$

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③ $-3+5x=17$

$+3 \quad +3$

$\frac{5x}{5} = \frac{20}{5}$

$x = 4$

④ $-6x+2=-22$

$-2 \quad -2$

$\frac{-6x}{-6} = \frac{-24}{-6}$

$x = 4$

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⑤ $\frac{x}{2}+3=-6$

$-3 \quad -3$

$2 \cdot \frac{x}{2} = -9 \cdot 2$

$x = -18$

⑥ $2-\frac{x}{5}=4$

$-2 \quad -2$

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

$x = -10$

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⑦ $\frac{x}{2} - 7 = -8$

$+7 \quad +7$

$2 \cdot \frac{x}{2} = -1 \cdot 2$

$x = -2$

$\frac{3x}{3} = \frac{12}{3}$

$x = 4$

$\frac{\frac{3}{4}x}{\frac{3}{4}} = \frac{12}{\frac{3}{4}}$

$x = 16$

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