

# Pre-Algebra Math Cheat Sheet

## Two-Step Equations

$$2x + 5 = 21$$

To solve for  $x$  apply two different operations to both sides:

$$2x + 5 - 5 = 21 - 5$$

these cancel out!

First subtract 5 from both sides

$$2x = 16$$

$$\frac{2x}{2} = \frac{16}{2}$$

these cancel out!

Next divide both sides by 2

$$x = 8$$

## Scientific Notation

$10^3$  This is a Power of Ten.

$10^3$  This also means 1,000 ( $10 \times 10 \times 10$ )

$2 \times 10^3$  This can be written as  $2 \times 1,000$  which equals 2,000

Scientific Notation	Calculation	Decimal Notation
$2 \times 10^3$	$2 \times 1,000$	2,000

## Variable on Both Sides

$$2x + 8 = 16$$

To solve for  $x$  we need to get the variable on one side only.

Either subtract 2x from both sides OR add 5x to both sides.

$$2x + 8 - 2x = 16 - 2x$$

these cancel out!

$$8 = 16 - 2x$$

Next subtract 8 from both sides

$$16 - 8 = 16 - 2x - 8$$

$$8 = 16 - 2x$$

Finally divide both sides by 2

$$\frac{8}{2} = \frac{16 - 2x}{2}$$

these cancel out!

$$4 = 8 - x$$

## Equations with Fractions

To solve for  $x$  apply the same operation to both sides:

$$x - \frac{1}{2} = \frac{3}{2}$$

First add  $\frac{1}{2}$  to each side to isolate  $x$

$$x - \frac{1}{2} + \frac{1}{2} = \frac{3}{2} + \frac{1}{2}$$

these cancel out!

Then add the fractions

$$x = \frac{3}{2} + \frac{1}{2} = \frac{4}{2}$$

To solve for  $x$  apply the same operation to both sides:

$$\frac{x}{3} = \frac{2}{3}$$

First multiply both sides by 3 to isolate  $x$

$$\frac{x}{3} \cdot \frac{3}{1} = \frac{2}{3} \cdot \frac{3}{1}$$

these cancel out!

Then multiply the fractions

$$x = \frac{2}{3} \cdot \frac{3}{1}$$

$$x = \frac{2 \cdot 3}{3 \cdot 1} = 2$$

## Equations with Decimals

To solve for  $x$  apply the same operation to both sides:

$$0.2x = 0.94$$

Divide both sides by 0.2

$$\frac{0.2x}{0.2} = \frac{0.94}{0.2}$$

these cancel out!

$$x = 0.1046$$

To solve for  $y$  apply the same operation to both sides:

$$y - 9.85 = -0.2$$

Add 9.85 to both sides

$$y - 9.85 + 9.85 = -0.2 + 9.85$$

these cancel out!

$$y = 9.65$$

## Inequalities

An inequality contains two expressions and is separated by one of these signs:  $<$ ,  $>$ ,  $\leq$  or  $\geq$ .

A solution set is the set of all possible solutions to an inequality.

$$\frac{x-1}{2} < \frac{x+1}{4} \quad \text{multiply both sides by 4}$$

$$2(x-1) < x+1$$

$$2x - 2 < x + 1$$

Draw a closed circle if the inequality is greater than (or less than) or equal to the number

$$\frac{x-1}{2} < \frac{x+1}{4} \quad \text{multiply both sides by 4}$$

$$2(x-1) < x+1$$

$$2x - 2 < x + 1$$

Draw an open circle if the inequality is greater than (or less than) but not equal to the number

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**Jjthetutor**



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