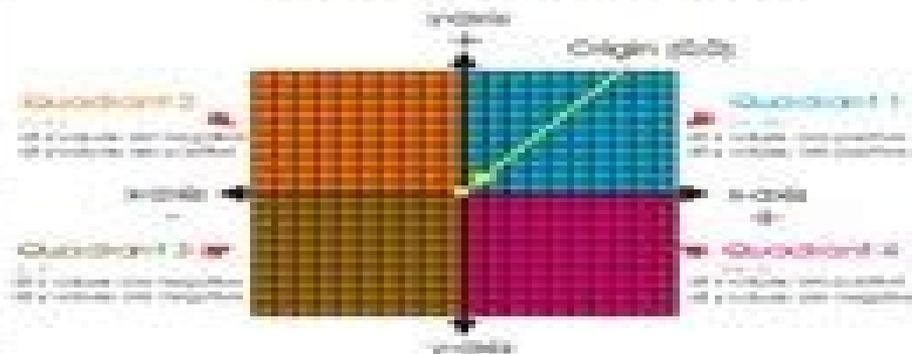


IMPORTANT FORMULAS:	
Slope	In a graph: $m = \frac{\text{rise}}{\text{run}}$ From a table or set of coordinates: $m = \frac{y_2 - y_1}{x_2 - x_1}$
Linear equation (slope-intercept form)	$y = mx + b$ where m is slope and b is y-intercept
Volume of a prism	$V = Bh$ where B is area of base
Volume of a cylinder	$V = \pi r^2 h$ radius, height
Volume of a cone	$V = \frac{1}{3} \pi r^2 h$
Volume of a sphere	$V = \frac{4}{3} \pi r^3$

Coordinate plane (x,y)



SOLVING EQUATIONS – VARIABLES ON BOTH SIDES

$$\begin{array}{r}
 4x - 15 = 3x + 8 \\
 -3x \quad -3x \\
 \hline
 x - 15 = 8 \\
 +15 \quad +15 \\
 \hline
 x = 23
 \end{array}$$

subtract the smallest
in grey

$$\begin{array}{r}
 3x - 15 = 8 \\
 -15 \quad -15 \\
 \hline
 3x = -7 \\
 \frac{3x}{3} = \frac{-7}{3} \\
 x = -\frac{7}{3}
 \end{array}$$

subtract the 15

divide the 3

SOLVE FOR X:

$$15 + 6x = 45 + 8x$$

$$\begin{array}{r}
 15 + 6x = 45 + 8x \\
 -6x \quad -6x \\
 \hline
 15 = 45 + 2x \\
 -45 \quad -45 \\
 \hline
 -30 = 2x \\
 \frac{-30}{2} = \frac{2x}{2} \\
 -15 = x
 \end{array}$$

Check your answer:

$$\begin{array}{l}
 15 + 6(-15) \stackrel{?}{=} 45 + 8(-15) \\
 15 + (-90) \stackrel{?}{=} 45 + (-120) \\
 -75 = -75 \quad \checkmark
 \end{array}$$

SOLVING EQUATIONS – MULTISTEP WITH DISTRIBUTIVE PROPERTY

- 1) DISTRIBUTIVE PROPERTY
- 2) COMBINE LIKE TERMS ON EACH SIDE OF =
- 3) LINE INVERSE OPERATIONS TO GET ± ADD OR SUBTRACT COEFFICIENT (FOCAL IS TO GET VARIABLE ON ONE SIDE) OF =
- 4) LINE INVERSE OPERATIONS TO ISOLATE THE VARIABLE

$$3x + 15 - 8 = 2x + 20$$

$$3x + 7 = 2x + 20$$

$$\begin{array}{r}
 3x + 7 = 2x + 20 \\
 -2x \quad -2x \\
 \hline
 x + 7 = 20 \\
 -7 \quad -7 \\
 \hline
 x = 13
 \end{array}$$

WRITING EQUATION OF A LINE

The equation of a line is $y=mx+b$. We need to first find the slope m the y -intercept before we can write an equation.

Example: Write the equation of the line that passes through the points (5, -2) and (10, 8)

STEP 1: Find the slope using $m = \frac{y_2 - y_1}{x_2 - x_1}$. You can assign (5, -2) as (x_1, y_1) and (10, 8) as (x_2, y_2) PLUG IN!

$$m = \frac{8 - (-2)}{10 - 5} \text{ and we get } m = \frac{10}{5} = 2 \dots \text{so our slope is } 2$$

STEP 2: Using one of your coordinates (let's use (10, 8) so $x=10, y=8$) and your slope ($m=2$), plug in to $y=mx+b$ and solve.
 $y = mx + b \rightarrow 8 = 2(10) + b \rightarrow 8 = 20 + b \rightarrow b = -12 \dots$ so our y -intercept is -12

STEP 3: Plug m and b into $y=mx+b$.

The equation for the line that passes through (5, -2) and (10, 8) is $y = 2x - 12$



8th Grade Math Study Guide

H Kauffman



8th Grade Math Study Guide:

8th Grade Math Study Guide Book Review: Unveiling the Power of Words

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