

Math EOC Study Guide

$$3x + 5y = 9$$



Other Metric Conversions:

1 foot = 12 inches

1 yard = 3 feet

1 mile = 1,760 yards

1 mile = 5,280 feet

1 mile $\approx$ 1.609 kilometers

1 inch = 2.54 centimeters

1 kilometer $\approx$ 0.62 mile

1 meter $\approx$ 39.37 inches

1 pound = 16 ounces

1 pound $\approx$ 0.454 kilograms

1 kilogram $\approx$ 2.2 pounds

Graphing:

$$y = x^2$$

graphs a u-shape
if a is positive, it's a smile
if a is negative, it's a frown

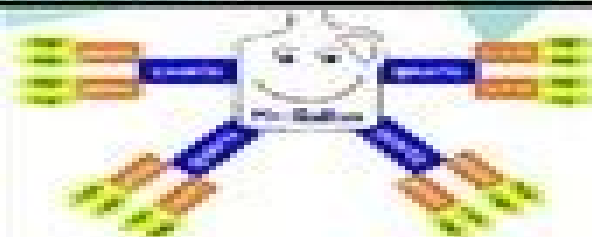
$$y = bx$$

graphs a v-shape

$$y = mx + b$$

graphs a line
 m = slope (rise over run)
 b = y-intercept

Plotting points: "y's up" write up
(3, -6) from origin, go right 3, down 6



1 gallon = 4 quarts

1 gallon = 8 pints

1 gallon = 16 cups

1 quart = 2 pints

1 pint = 2 cups

1 cup = 8 fluid ounces

1 gallon $\approx$ 3.785 liters

1 liter $\approx$ 0.264 gallons

1 liter = 1,000 cubic centimeters

Number Sets

Natural Numbers	The Counting Numbers	1, 2, 3, 4, ...
Whole Numbers	The set of natural numbers and 0	0, 1, 2, 3, 4, ...
Integers	The set of whole numbers and their opposites	..., -2, -1, 0, 1, 2, ...
Rational Numbers	The set of numbers that can be written as a ratio of integers	$-\frac{3}{4}$, $\frac{5}{2}$, -2.5 , $\frac{1}{3}$
Irrational Numbers	The set of numbers that cannot be written as a ratio of integers	π , $\sqrt{2}$, e , $\sqrt{5}$

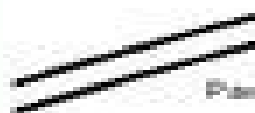
Given two points:

(x_1, y_1) , (x_2, y_2)

Slope Formula:

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$m = \frac{\text{rise}}{\text{run}}$$



Parallel Lines have the same slope.



Perpendicular Lines have slopes that are negative reciprocals (like $\frac{1}{2}$ and -2).

Calculating Sine, Cosine and Tangent

Sine Ratio



$$\sin \theta = \frac{\text{opposite}}{\text{hypotenuse}} = \frac{y}{r}$$

Cosine Ratio



$$\cos \theta = \frac{\text{adjacent}}{\text{hypotenuse}} = \frac{x}{r}$$

Tangent Ratio



$$\tan \theta = \frac{\text{opposite}}{\text{adjacent}} = \frac{y}{x}$$

Eoct Math Study Guide Packet

Tao Wei

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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