

# 8th Grade Study Guide

## SLOPE-INTERCEPT FORM

MEMO:  $y = mx + b$



TABLES

| x | y |
|---|---|
| 0 | 3 |
| 1 | 5 |
| 2 | 7 |
| 3 | 9 |

$y = 2x + 3$

POINT-SLOPE FORM

if you're given two points

$(x_1, y_1)$  and  $(x_2, y_2)$

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

To find 'b'

$y = mx + b \rightarrow y - mx = b$   
 Choose and replace with slope, any x value and any y value. Solve for 'b'

## SCIENTIFIC NOTATION

Exponent tells you to move right or left and how many places values to move.

SCIENTIFIC TO COMMON

$4.235 \times 10^2 = 423.5$

$4.89 \times 10^4 = 48,900$

COMMON TO SCIENTIFIC

$123,456 = 1.23456 \times 10^5$

$0.00001 = 1 \times 10^{-5}$

Big numbers = (+) Exponent  
 Small numbers = (-) Exponent

## ANSWERS TO QUESTIONS BY OTHER VARIABLES

- Each A
- Every A
- For A

## DIRECT VARIATION

(varies directly)

$\frac{y}{x} = \frac{y_1}{x_1}$

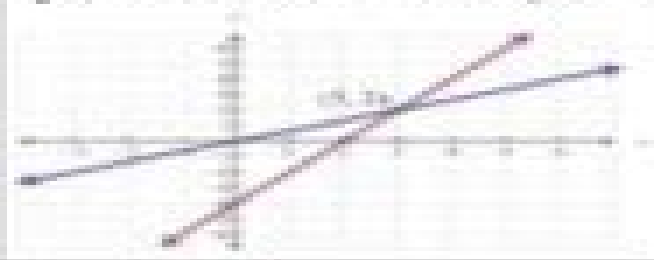
Cross multiply and divide by the leftover

## PARALLEL LINES WITH TRANSVERSAL



## SYSTEMS OF EQUATIONS

When two or more lines are on a graph the solution is where they cross.



## INTEREST

SIMPLE:  $I = prt$

$I$  = interest (extra amount)

$p$  = Principle Amount  $S$

$r$  = rate %

$t$  = time (years) (months divide by 12)

COMPOUND:  $A = P(1 + r)^t$

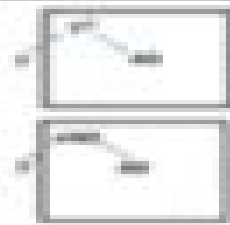
$A$  = Total Amount in Account

$p$  = Principle Amount  $S$

$r$  = rate %

$t$  = time (years) (months divide by 12)

S  
O  
U  
A  
R  
E  
S



To find area  
 side length  
 and square it

To find area  
 side length  
 and square it

## TRIANGLE ANGLES

Interior angles

The sum of the three interior angles in any triangle will always be 180°

$\angle A + \angle B + \angle C = 180^\circ$



Exterior angles

The exterior angle of a triangle is equal to the sum of the two opposite interior angles

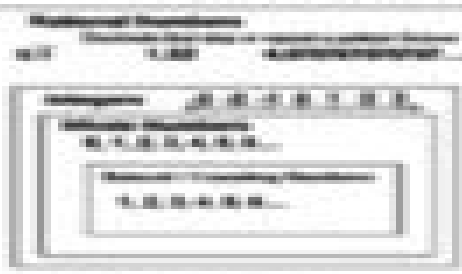
$\angle A + \angle B = \angle C$



## INEQUALITY SIGNS

| Sign | Mean                     |
|------|--------------------------|
| >    | greater than             |
| <    | less than                |
| ≥    | greater than or equal to |
| ≤    | less than or equal to    |
| >    | greater than             |
| <    | less than                |
| ≥    | greater than or equal to |
| ≤    | less than or equal to    |

## REAL NUMBER SYSTEM



Natural, whole and integers are never decimals.

Every number is a real number

Natural Numbers  
 Whole Numbers  
 Integers  
 Rational Numbers  
 Real Numbers

EXAMPLES

# Math 8th Grade Staar Study Guide 2013

**Yi-Tong Ma**



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