## Metric System

1	cent	-	10 mm				1000 nero
- 31	dim.	-	10 cm	3.3	de	0	0.3 ma
- 1	term.		10 des	1	CH	100	0.01 m
-1	DOM:	-	300 cm	1	100	m -	0.001 m

deci-marana 1/10

condi- means 1/300

system 1/1000

#### Numbers

Prime - any number greater than one that can only be factored by itself and the number one

Composite - any number greater than one that has more than two factors

Natural - numbers used for counting: {1, 2, 3, 4, . . .}

Whole - the set of natural numbers, plus zero

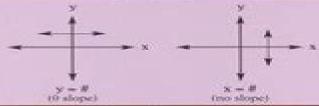
Integers - any positive or negative whole number, plus zero

Real - includes all rational and irrational numbers, both positive and negative

## Number Line



## Special Lines



## Rules for Integers

- When adding two numbers with the same sign, take the sum of the two numbers and keep the sign. Examples: 4 + 5 = 9: -6 + -2 = -5
- When adding two numbers with different signs, take the difference of the two numbers and use the sign of the larger number.

Examples: -14 + 8 = -6; 8 + -5 = 3

 When subtracting two exembers, change the subtraction problem to an addition problem by adding the opposite of what was being subtracted. Follow steps "1" and "2" to finish the problem.
 Examples: -10 - 4 = -10 + -4 = -14; 5 - -3 = 5 + 3 = 8

## Table of Perfect Squares

n n	n	10.7	.0.	nº.	- m	107
1 1	- 6	36	11	121	26	2556
3 9	5	49 64	12	3499	18	324
4 16 5 25	9	83	14	196 225	19 20	361

## **Equation Solving Process**

1. Is it a subtraction problem?

t it a subtraction problem.

Change it to an addition problem.

2. Are there grouping symbols?



3. Are there variables on the right side?

Out Work them to the left side.



- 4. Is there a number not attached to the variable?

  So So Move it to the right side.

  Combine simplify right side.
- 5. Is there a number attached to the variable?

  1. If by "x", then "+".

  2. If by "+", then "x".

  3. If a fraction, use reciprocal.

## General

visetable of it.

 $d = r \times t$  d = distance r = rate t = time  $p = c \times n$  p = total price c = cost of items n = number of items  $u = \frac{p}{n}$  u = unit price p = total price n = number of units  $p = 100 \left(\frac{g - s}{g}\right)$  p = percent of discount g = original price

## s - sale price

 $m = \frac{y_i - y_i}{x_i - x_i}$  slope definition (m = slope) y = mx + b slope-intercept formula (h = y-intercept)  $y_i - y_i = m(x_i - x_i)$  point-slope formula  $d = \sqrt{(x_i - x_i)^2 + (y_i - y_i)^2}$  distance formula

#### Other

 $ax^{c} + bx + c = 0$  general foresula of quadratic  $x = \frac{-b + \sqrt{-b^{2} - 4ac}}{2a}$  quadratic formula



- if c' > a' + b', then obtuse A
   if c' < a' + b', then acute A</li>
- if c' = a' + b', then right A

# **Concepts Of Numbers For Arithmetic And Prealgebra**

**Barbara Lontz** 

## **Concepts Of Numbers For Arithmetic And Prealgebra:**

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