

Pre-Algebra & Algebra

Metric System

1 cm = 10 mm	1 m = 1000 mm
1 dm = 10 cm	1 dm = 0.1 m
1 m = 10 dm	1 cm = 0.01 m
1 m = 100 cm	1 mm = 0.001 m

deci- means 1/10 centi- means 1/100 milli- means 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: $4 + 5 = 9$; $-6 + -2 = -8$
- 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 numbers, 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 ²	n	n ²	n	n ²	n	n ²
1	1	6	36	11	121	16	256
2	4	7	49	12	144	17	289
3	9	8	64	13	169	18	324
4	16	9	81	14	196	19	361
5	25	10	100	15	225	20	400

Equation Solving Process

- Is it a subtraction problem?
 yes → Change it to an addition problem.
 no →
- Are there grouping symbols?
 yes → Distribute.
 no →
- Are there variables on the right side?
 yes → Move them to the left side.
 no → Combine/simplify left side.
- Is there a number not attached to the variable?
 yes → Move it to the right side.
 no → Combine/simplify right side.
- Is there a number attached to the variable?
 yes → 1. If by "x", then "+".
 2. If by "+", then "x".
 3. If a fraction, use reciprocal.
 no → variable = #

General

$$d = r \times t$$

d = distance
 r = rate
 t = time

$$p = c \times n$$

p = total price
 c = cost of item
 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

Linear

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

slope definition
 (m = slope)

$$y = mx + b$$

slope-intercept formula
 (b = y-intercept)

$$y_2 - y_1 = m(x_2 - x_1)$$

point-slope formula

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

distance formula

Other

$$ax^2 + bx + c = 0$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

general formula of quadratic
 quadratic formula

$$a^2 + b^2 = c^2$$



Pythagorean Theorem
 • if $c^2 > a^2 + b^2$, then obtuse Δ
 • if $c^2 < a^2 + b^2$, then acute Δ
 • if $c^2 = a^2 + b^2$, then right Δ

Concepts Of Numbers For Arithmetic And Prealgebra

Barbara Lontz



Concepts Of Numbers For Arithmetic And Prealgebra:

Concepts of Numbers for Arithmetic and Prealgebra Barbara Lontz, 2015 This is an arithmetic prealgebra text It was written and developed with a different approach Traditional arithmetic prealgebra texts present mathematics through a series of topics such as whole numbers fractions decimals percents etc This text addresses all of the same topics in arithmetic prealgebra but develops them through the basic concepts of addition subtraction multiplication and division P vii

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