# PRE-ALGEBRA



#### NUMBER SYSTEMS

The following sets are infinite; that is, there are no last numbers.

The three dots indicate continuing or never-ending patterns.

Counting or natural numbers = (1, 2, 3, 4,..., 78, 79,...)

Whole numbers = [6, 1, 2, 3, 4,..., 296, 297,...].

Integers = 1 -4, -3, -2, -1, 0, 1, 2, 3, 4-1

Rational numbers — (all numbers that can be written as fractions, p/q, where p and q are integers and q is not zero). Rational numbers include all counting numbers, whole numbers, and integers, in addition to all proper and improper fraction numbers, and ending or repeating decimal numbers.
 Exx. 4/9, 3, −18.75, √16, −√25

Irrational numbers = [all numbers that cannot be expressed as rational numbers]. As decimal numbers, irrational numbers do not end nor repeat.
 Exec 3.171171817.....√7. = √2. π.

Real numbers — full rational and all irrational numbers).

#### **OPERATIONS**

#### ABSOLUTE VALUE

Alreadate value is the distance (always positive) between a number and zero on the number line; the positive value of a number. Exec |3| = 3; |-3| = 3; |-5| = 5

ADDITION

Integers: When adding integers follow these rules.
 a. If both numbers are positive, add them, the sign of the answer will be positive.

b. If both numbers are regutive, add there, the sign of the answer will be regutive.

e. If one number is negative and the other is positive (in any order), subtract the two numbers (even through they are joined by a plus sign), the sign of the assumer will be the same sign as the sign of the number that has the larger absolute value.

Exect 4 + (-9) = -9; (-32) + (-2) = -34; (-12) + 14 = 2.

2. Rutherad numbers:

a. When adding two mixed numbers, fractions, or decimal numbers, follow the same sign rules that are used for integers (above), but also follow the rules of operations for each type of number.

b. For mixed numbers and fractions, make sure the fractions have a common denominator, then add the numbers. Mixed numbers and fractions can also be changed to decimal numbers and then added.

c.For decimal numbers, line the decimal points up, then add the numbers bringing the decimal point straight down.

Exe: (-4 1/2) + (5 1/2) = (-4 1/2) + (5 1/2) = 1 1/2 5.667 + (-3.77) = 4.79

1. Revettional numbers:

When adding irrational numbers, exact decimal values cannot be used. If decimal values are used, then they are reuseded and the assure is only an approximation. Instead, if the two irrational numbers are multiples of the same square root, radical expression, or pi (x), then simply add the coefficients (numbers in front) of the roots or pi (x).

Exec.  $4\sqrt{3} + 5\sqrt{3} = 9\sqrt{3}\psi(-6\pi) + 9\pi = 3\pi\chi \cdot 3\sqrt{7} + 3\sqrt{2}$  cannot be added any further because the two square roots are different.

SUBTRACTION

 Subtraction of all categories of numbers can be accomplished by adding the opposite of the number to be subtracted.

 After changing the sign of the number in back of the minus sign, follow the rules of addition as stated above. Exact 8 = (-3)=8+(-3)=11;(-15)=(9)=(-15)+(-9)=-24 MULTIPLICATION

Integers: When multiplying integers, follow these rules.

a. If the sigms of the numbers are the same, multiply and make the answer positive.

b. If the sigms of the marrivers are different, multiply and make the arrover negative.

NOTE: The sign of the answer does not come from the number with the larger absolute value as it does in addition. Exect—4x59=-29xf-3x-2) = 6x7x(-10)=-70.

2. Rational numbers:

 When multiplying rational numbers, follow the sign rules that are used for multiplying integers (above) and the rules for multiplying each type of number.

b. For mixed numbers, change each mixed number to an improper fraction, and then multiply the resulting fractions.

c. For fractions, multiply the numerators and the denominators, then reduce the answer.

d. For declared manthers, multiply them as though they were integers, then put the decimal point in the answer so there is the same manther of digits behind the decireal point in the answer as there are behind both decimal points in the problem.
3. Irrational manthers:

 When multiplying irrational numbers, follow the same sign rules that are used for integers (listed above).

 If radical expressions are multiplied and they have the same indices, then the numbers (radicands) under the root symbols (radicals) can be multiplied.

Exe:  $(-\sqrt{5})(\sqrt{7}) = -\sqrt{35}$ ;  $(3\sqrt{7})(-4) = -12\sqrt{7}$ 

#### DIVISION

1. Integers: When dividing integers, follow these rules:

a. If the signs of the numbers are the same, divide them and make the answer positive.

b. If the signs of the numbers are different, divide them and make the answer negative.

c. The sign of the answer does not come from the mamber with the larger absolute value as it does in addition.

Exec (-30)/(5) = -6; (-22)/(-2) = 11; (70)/(-10) = -7

2. Rational numbers:

a. When dividing rational numbers, follow the sign rules that are used for dividing integers (listed above) and the rules for dividing each type of number.

b. For mixed mambers, change each relead mureber to an improper fraction, invert or flip the reember behind the division sign and follow the rules for multiplying fractions.

c. For decimal numbers, first move the decimal point in the divisor to the back of the number, then, move the decimal point the same manber of positions to the right in the dividend. Divide the numbers, then bring the decimal point straight up into the quotient (answer). Additional zeros can be written after the last digit behind the decimal point in the dividend so the division process can continue if needed.

#### 3. Errutional numbers:

because the exponent was 6.

 a. When dividing irrational numbers, follow the same sign rules that are used for dividing integers (listed above).

 If radical expressions are divided and they have the same indices, then the numbers (radicands) under the root symbols (radicals) can be divided.

Exec  $(-\sqrt{15})I(\sqrt{3}) = -\sqrt{5}; (\sqrt{36})I(-\sqrt{6}) = -\sqrt{5}; \sqrt[5]{4}I\sqrt{2}$  cannot be divided, only simplified as demonstrated in the Quick Study Silgebra Plant One study guide.

**EXPONENTS / POWERS** 

Definition: \*\* = q · q<sub>q</sub> · q · q<sub>q</sub> · that is, the number written in the oppor right-hand

Rule: a\*\* a\*\* = a\*\*\*; that is, when multiplying the same base, the new exponent can be finished quickly by adding the exponents of the bases that are multiplied. Exec (5\*) (5\*) = 5\*; (3\*) (7\*) (7\*) (7\*) (7\*) (7\*)

Rule: n'v n' = n' = ; that is, when dividing the same base the new exponent can be found quickly by subtracting the exponents of the bases that are divided. The new base and exponent go either in the numerator or in the denominator, wherever the highest exponent was located in the original problem. Exet (7') / (7') = 7'; (5') / (7') = 1 / (5')

4. Rudler a " = 1/ac and 1/a " = a; that is, a negative exponent can be changed to a positive exponent by showing the base to the order section of the fraction; manuscrator goes to demonstrator or denominator goes to numerorator.

Exs:  $7^{\circ} = 1/(7^{\circ})$ ;  $1/(5^{\circ}) = 5^{\circ}$ ;  $3/(2^{\circ}) = 3/(2^{\circ})$  notice the 3 stayed in the numerator because the invisible exponent is always positive 1.

Rulle: (a\*)\* = a\*\*\*; that is, when there is a base with an exponent raised to another exponent, then the short cut is to multiply the exponents.
 Ex: (-3a\*)\* = (-3)\*(a\*)\* = -27a\*

ORDER OF OPERATIONS

When a problem has many operations, the order in which the operations are completed will give different asserts in the short is an order of operations rules.

1. Do the operations in the parentheses (or any exclosure cymbols) first.

Do any exponents or powers next.

 Do any multiplication and division, going left to right in the order they appear (this means division is done before multiplication if it comes first in the problem).

Do the addition and subtraction, going left to right in the order they appear (this recurs subtraction is done before addition if it comes first in the problem).
 Exc. 4 + 2 (3 + 7) = 4 + 2 (10) = 4 + 20 = 24, 40 = 5 + 2 + 4 = 4 = 8 + 2 + 1 = 16 + 1 = 17

#### SCIENTIFIC NOTATION

A form of a decimal number where the decimal point is always behind exactly one non-zero digit and the number is multiplied by a power of ten.

#### Exec 4.87 x 10°; 3.981 x 10°

 It is a method for representing very large or very small numbers without writing a lot of digits. Ext 243,790,000,000,000 would be written as 2.437 x 10<sup>-1</sup>; .000000982 would be written as 9.82 x 10<sup>-1</sup>.

A positive or seen exponent on the 10 means the number value is more than or equal to one. A negative exponent on the 10 means the number value is less than one. Ext 5.29 x 10 \*\* - 529,000,000,000,000.

Operations with very large or very small numbers can be completed using the scientific notation form of the numbers, especially with calculators.

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**Roman Wölfel** 

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## **Table of Contents Printable Pre Algebra Study Guide**

- 1. Understanding the eBook Printable Pre Algebra Study Guide
  - The Rise of Digital Reading Printable Pre Algebra Study Guide
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Printable Pre Algebra Study Guide
  - Exploring Different Genres
  - o Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Printable Pre Algebra Study Guide
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Printable Pre Algebra Study Guide
  - Personalized Recommendations
  - Printable Pre Algebra Study Guide User Reviews and Ratings
  - Printable Pre Algebra Study Guide and Bestseller Lists

- 5. Accessing Printable Pre Algebra Study Guide Free and Paid eBooks
  - Printable Pre Algebra Study Guide Public Domain eBooks
  - Printable Pre Algebra Study Guide eBook Subscription Services
  - Printable Pre Algebra Study Guide Budget-Friendly Options
- 6. Navigating Printable Pre Algebra Study Guide eBook Formats
  - o ePub, PDF, MOBI, and More
  - Printable Pre Algebra Study Guide Compatibility with Devices
  - Printable Pre Algebra Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Printable Pre Algebra Study Guide
  - Highlighting and Note-Taking Printable Pre Algebra Study Guide
  - Interactive Elements Printable Pre Algebra Study Guide
- 8. Staying Engaged with Printable Pre Algebra Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Printable Pre Algebra Study Guide
- 9. Balancing eBooks and Physical Books Printable Pre Algebra Study Guide
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection Printable Pre Algebra Study Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Printable Pre Algebra Study Guide
  - Setting Reading Goals Printable Pre Algebra Study Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Printable Pre Algebra Study Guide
  - Fact-Checking eBook Content of Printable Pre Algebra Study Guide
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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