

Addison-Wesley's Basic Math Review

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Natural Numbers
0, 1, 2, 3, 4, 5, ...

Whole Numbers
0, 1, 2, 3, 4, ...

Integers
..., -3, -2, -1, 0, 1, 2, 3, ...

The Number Line
A horizontal line with arrows at both ends. It has tick marks and labels. The labels are 5, 4, 3, 2, 1, 0, 1, 2, 3, 4, 5. The labels 5 and 4 are to the left of the line, and the labels 1, 2, 3, 4, 5 are to the right of the line. The label 0 is in the middle. The labels 5 and 4 are red, and the labels 1, 2, 3, 4, 5 are green. The label 0 is black.

Zero

Rational Numbers
All numbers that can be written in the form $\frac{a}{b}$, where a and b are integers and $b \neq 0$.

Irrational Numbers
Any number that is not rational. For example, $\sqrt{2}$ is an irrational number.

Real Numbers
The set of all rational and irrational numbers.

Properties of Addition

- Zero Property**
 $a + 0 = a$
- Identity Property**
 $a + (-a) = 0$
- Commutative Property**
 $a + b = b + a$
- Associative Property**
 $a + (b + c) = (a + b) + c$

Properties of Multiplication

- Identity Property**
 $a \cdot 1 = a$
 $a \cdot 0 = 0$
- Inverse Property**
 $a \cdot \frac{1}{a} = 1$
 $a \cdot (-1) = -a$
- Commutative Property**
 $a \cdot b = b \cdot a$
- Associative Property**
 $a \cdot (b \cdot c) = (a \cdot b) \cdot c$
- Properties of Division**

$\frac{a}{b} = a \cdot \frac{1}{b}$ and $\frac{a}{b} = a \cdot \frac{1}{b}$
where $a \neq 0$
 $\frac{a}{b}$ is undefined, and
 $\frac{a}{b} = a \cdot 0$

Absolute Value
The absolute value of a number is always 0 or greater.
 $|a| \geq 0$, $|0| = 0$
For example, $-5 = 5$ and $0 = 0$. In each case, the answer is positive.

Key Words and Symbols
The following words and symbols are used for the operations listed.

Addition
Sum, total, increase, plus, added to, added in sum.

Subtraction
Difference, decrease, minus, removed, subtracted, difference.

Multiplication
Product, of, times, $a \times b$, $a \cdot b$, in terms of, factor, a factor, a product.

Division
Quotient, goes divided by, $a \div b = \frac{a}{b}$, $a \cdot b = ab$, divided by, divisor, a divisor, a quotient.

Order of Operations

- PEMDAS**
Simplify any expressions inside parentheses.
- 2. Exponents**
Work out any exponents.
- 3. Multiplication and Division**
Work all multiplication and division, working from left to right.
- 4. Addition and Subtraction**
These are done last, from left to right. For example:
 $23 + 3 \cdot 2 \cdot 100 - 12 \div 3$
 $= 23 + 3 \cdot 2 \cdot 100 - 12 \div 3$
 $= 23 + 6 \cdot 100 - 12 \div 3$
 $= 23 + 600 - 12 \div 3$

Adding and Subtracting with Negatives
 $a + (-b) = a - b$
 $a - b = a + (-b)$
 $a + (-b) + (-c) = a - b - c$
 $a - b - c = a - b + (-c)$

Multiplying and Dividing with Negatives
Same examples:
 $-3 \cdot 5 = -15$, $3 \cdot (-5) = -15$
 $-10 \div 4 = -2.5$, $4 \div (-10) = -0.4$

Prime Numbers
A prime number is a number that has only itself and 1 as factors.

Composite Numbers
A composite number is a number that is not prime. For example, 6 is a composite number.
 $6 = 2 \cdot 3 = 2 \cdot 3^1$

Least Common Multiple
The LCM of a set of numbers is the smallest number that is a multiple of all the given numbers.

For example, the LCM of 3 and 6 is 6, since 3 and 6 have no factors in common.

Greatest Common Factor
The GCF of a set of numbers is the largest number that can be evenly divided into all of the given numbers.

For example, the GCF of 24 and 36 is 12, since both 24 and 36 are divisible by 12, but they are not both divisible by any numbers larger than 12.




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Reviews

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(Roosevelt Rohan)

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