

GED® Math Study Guide 2.15

Math Terminology

Numbers, Types of:

Natural ... also called positive integers or counting numbers, they are the numbers $\{1, 2, 3, 4, 5, \dots\}$

Whole Number ... 0 or any positive number without a fractional or decimal part; all natural numbers are whole (the integer ... 0 or any positive or negative number without a fractional or decimal part; all whole numbers are integers)

Rational Number ... a number that can be written as a ratio; means $\frac{a}{b}$ can be written as a fraction in which both the numerator (the top number) and the denominator (the bottom number) are whole numbers. Note: The denominator cannot be 0, but the numerator can be.

Example: The number 0 is a rational number because it can be written as the fraction $\frac{0}{1}$.

All integers are rational numbers.

Irrational Number ... a number that cannot be expressed as a ratio between two integers. If written in decimal notation, an irrational number would have an infinite number of digits to the right of the decimal point, without repetition. The value of π (3.1415...) and the square root of 2 ($\sqrt{2}$) are examples of irrational numbers.

Real Number ... (also called measurable numbers); any rational or irrational number; each of the infinite number of points on the real number line represents a real number. This includes all numbers that can be written as a decimal and fractions is also in decimal form.

Positive Number ... 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16

Negative Number ... -1, -2, -3, -4, -5, -6, -7, -8, -9, -10, -11, -12

Prime Number ... a whole number > 1 whose only factors are 1 and itself; note that 0 and 1 are not prime numbers.

Composite Number ... a whole number that can be divided evenly by numbers other than 1 and itself.

Absolute Value ... given by two parallel vertical lines, absolute value is the magnitude of a real number without regard to its sign. It's the number's distance from 0 on the number line. Example: $|-5| = 5$

Place Value ... in a whole number, it's the position a certain digit occupies. In the GED® Math test asks you, "what is the place value of the 5 in the number 5,500?" the 5 occupies the thousands place, so that's its place value.

Value of a Digit ... determined from place value, the position of a digit in a number determines its value; for example, in the number 7,500 the value of 7 is 7 times its place value, or $7 \times 1,000 = 7,000$.

Other test tips:

Operations ... add, subtract, multiply, divide

Inverse ... opposite operations; addition is the opposite of subtraction; division the opposite of multiplication, and so on. Inverse operations are used to solve simple algebraic equations.

Sum, Total, Combined all mean to add $2 + 3 = 5$

Addends numbers to be added in $2+3$, 2 & 3 are addends

Sum ... the result of adding a series of addends

Difference ... subtracted $7 - 3$

Minuend ... the top number in subtraction

Subtrahend ... the bottom number in subtraction

Product ... the result when multiplying two or more #'s. $7 \times 3 = 21$; solve the product $4 \times 2 = 8$; 300×12

Multiplied ... the top number in multiplying two #'s

Multiplier ... the bottom number in multiplying two #'s

Quotient ... answer in division $6 \div 2 = 3$ $\sqrt{6} = 2.4$

Divisor ... the number outside the house; 2 here $\sqrt{2}$

Dividend ... the number inside the house; 4 here $\sqrt{4}$

Solve ... calculate the problem, get answer

Percent ... PART of a whole number %

Rounding ... nice neat whole numbers

Fractions ... PART of a WHOLE number; $\frac{1}{2}$

Numerator ... top number - the part

Denominator ... bottom number - the whole

Proper ... less than 1 whole = num. < denom.

Improper ... more than 1 whole = num. > denom.

Mixed ... integer and a proper fraction

Compare ... $<$, $=$, $>$ less than, equal, greater than

LCM ... Lowest Common Denominator

Reduce ... lower the numbers; $\frac{66}{11} = 6$


Simplify ... same as reducing fractions

Perimeter ... distance around a flat figure 

Area ... surface inside a flat figure 

Volume ... size inside a 3D object 

Diameter ... distance across a circle 

Radius ... distance from center of a circle to any edge 

Circumference ... distance around a circle

π , n ... value is 3.14; it's the ratio of a circle's circumference to its diameter. The value is constant; it never changes, despite the size of the circle. On the GED® Math test, if the instructions say to use π as the value for π instead of 3.14, do so because one of the other numbers on the comparison will be a fraction.

Congruent ... figures with the same shape 

Factor (ing) ... writing a number as a product of two numbers

GCF ... Greatest Common Factor (biggest number that evenly divides into two numbers). Found by showing the factors of each number and finding the biggest # common to both. Example: find the GCF of 14 and 35. Factors of 14 are: 1 = 14, 2 = 7, and that's it. Factors of 35 are 1 x 35,

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