

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; every integer can be written as a fraction with a denominator of 1

Irrational Number ... a number that cannot be expressed as a ratio between two integers; it either has a decimal notation, an irrational number would have an infinite number of digits to the right of the decimal point, without repeating. 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 ... shown 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 ... derived 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 $6 \div 2 = 3$ $\sqrt{6} = 2.45$

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  (Length \times Width)

Volume ... size inside a 3D object  (Length \times Width \times Height)

Diameter ... distance across a circle  through the center

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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