

# GED® Math Study Guide 2.15

## Math Terminology

**Number 8, Type 8-01:**

**Natural** all \_\_\_\_\_ also called positive integers or counting numbers, they are the numbers 1, 2, 3, 4, 5, ...

**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 6 is a rational number because it can be written as the fraction  $\frac{6}{1}$ .

All integers are rational numbers.

**Irrational Number** \_\_\_\_\_ a number that cannot be expressed as a ratio between two integers. It neither is decimal notation, an irrational number would have an infinite number of digits to the right of the decimal point, without repeating. The value of  $\pi$  (3.14159...) and the square root of 2 ( $\sqrt{2}$ ) are examples of irrational numbers.

**Real Number** \_\_\_\_\_ (also called measuring 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. If a number's distance from 0 on the number line. Examples:  $|-5| = 5$

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

**Value of a digit** \_\_\_\_\_ defined 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 text**

**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 single algebraic equations.

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

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

**Sum** \_\_\_\_\_ the result of adding a series of addends

**Difference** \_\_\_\_\_ subtract  $7 - 3$

**Minuend** \_\_\_\_\_ the top number in subtraction

**Subtrahend** \_\_\_\_\_ the bottom number in subtraction

**Product** \_\_\_\_\_ the result when multiplying two or more #s.

$7 \times 5 = 35$ ; find the product  $4 \times 2 = 8$ ;  $340 \times 12$

**Multiplied** \_\_\_\_\_ the top number in multiplying two #s

**Multiplier** \_\_\_\_\_ the bottom number in multiplying two #s

**Quotient** \_\_\_\_\_ answer in division  $6 \div 2 = 3$   $\frac{1}{\sqrt{2}}$   $\frac{4}{5}$

**Divisor** \_\_\_\_\_ the number outside the house 2 here  $\frac{1}{2}$

**Dividend** \_\_\_\_\_ the number inside the house 4 here  $\frac{1}{2}$

**Solve** \_\_\_\_\_ calculate the problem, get answer

**Percent** \_\_\_\_\_ PART of a whole number %

**Rounding** \_\_\_\_\_ estimating 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** \_\_\_\_\_ an integer and a proper fraction

**Compare** \_\_\_\_\_ < > = less than, equal, greater than

**LCM** \_\_\_\_\_ Lowest Common Denominator

**Reduce** \_\_\_\_\_ lower the numbers  $\frac{45}{100} = \frac{9}{20}$

**Simplify** \_\_\_\_\_ same as reducing fractions

**Perimeter** \_\_\_\_\_ distance around a flat figure 

**Area** \_\_\_\_\_ surface inside a flat figure 

**Volume** \_\_\_\_\_ area inside a 3D object 

**Diameter** \_\_\_\_\_ distance across a circle 

**Radius** \_\_\_\_\_ distance from center to edge in any circle 

**Circumference** \_\_\_\_\_ distance around a circle

**$\pi$  is** \_\_\_\_\_ 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  $\pi$  as the value for  $\pi$  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  

**Fractioning** \_\_\_\_\_ using 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 x 14, 2 x 7 and that's it. Factors of 35 are 1 x 35,

# Ged Test Study Guide

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### **Table of Contents Ged Test Study Guide**

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

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