

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, $b \neq 0$. 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 π (3.1415...) 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 this 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: $4 \times 2 = 8$; 340×12

Multiplied _____ the top number in multiplying two #s

Multiplier _____ the bottom number in multiplying two #s

Quotient _____ answer to 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 $\frac{4}{2}$

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 $\frac{45}{10} = \frac{9}{2}$

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

π 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 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  

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,

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Hussin A.Rothana

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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Table of Contents Ged Math Study Guide 2013

1. Understanding the eBook Ged Math Study Guide 2013
 - The Rise of Digital Reading Ged Math Study Guide 2013
 - Advantages of eBooks Over Traditional Books
2. Identifying Ged Math Study Guide 2013
 - 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 Math Study Guide 2013
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ged Math Study Guide 2013
 - Personalized Recommendations
 - Ged Math Study Guide 2013 User Reviews and Ratings
 - Ged Math Study Guide 2013 and Bestseller Lists

5. Accessing Ged Math Study Guide 2013 Free and Paid eBooks
 - Ged Math Study Guide 2013 Public Domain eBooks
 - Ged Math Study Guide 2013 eBook Subscription Services
 - Ged Math Study Guide 2013 Budget-Friendly Options
6. Navigating Ged Math Study Guide 2013 eBook Formats
 - ePub, PDF, MOBI, and More
 - Ged Math Study Guide 2013 Compatibility with Devices
 - Ged Math Study Guide 2013 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ged Math Study Guide 2013
 - Highlighting and Note-Taking Ged Math Study Guide 2013
 - Interactive Elements Ged Math Study Guide 2013
8. Staying Engaged with Ged Math Study Guide 2013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ged Math Study Guide 2013
9. Balancing eBooks and Physical Books Ged Math Study Guide 2013
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ged Math Study Guide 2013
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ged Math Study Guide 2013
 - Setting Reading Goals Ged Math Study Guide 2013
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ged Math Study Guide 2013
 - Fact-Checking eBook Content of Ged Math Study Guide 2013
 - 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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