

GRE Quantitative Reasoning

OVERVIEW

- There are two sections with about 20 questions each.
- Each section should last about 35 minutes.
- An onscreen calculator is available. Even so, you should not become dependent upon it, as this is a reasoning test. The calculator is provided to help ensure accuracy, not for lengthy computations. Interpret the numbers and data using logic and critical thinking skills.
- There are three question types, so time should not be divided equally among them.

	Question Type per Section		
	Quantitative Comparison	Problem Solving	Data Interpretation
Number of Questions	7-8	9-10	~3
Minutes per Question	1.5	1.5-2	2

TEST OF QUANTITATIVE REASONING SKILLS

- The test evaluates your ability to:
 - Understand elementary mathematical concepts and apply basic mathematical skills
 - Read a math problem, understand what it's asking, and solve the problem
 - Reason, using your own knowledge of the various topics
 - Apply given information
 - Think logically and draw conclusions
 - Combine your knowledge of mathematical concepts with reasoning
 - Compare quantities
 - Solve word problems
 - Interpret data in charts and graphs
- The mathematical concepts on the GRE are similar to those on the SAT.
- Questions will relate to arithmetic, algebra, geometry, and data interpretation.
- There is no trigonometry, calculus, or other higher-level mathematics on the test.

ARITHMETIC

Topics include integers, such as divisibility, factorization, prime numbers, remainders, and odd and even integers; arithmetic operations, exponents, and roots; and concepts such as estimation, percent, ratio, rate, absolute value, the number line, decimal representation, and sequences of numbers.

Integers

Properties of Integers

- **Integer:** Number with no fraction or decimal.
- An integer can be positive, negative, or 0.

EX: -2, 0, 18

Identity Properties

- A number will not change when adding 0 to the number.

EX: $8 + 0 = 8$ EX: $y + 0 = y$

- A number will not change when multiplying it by 1.

EX: $6 \times 1 = 6$ EX: $y \times 1 = y$

Properties of Zero

- Any number multiplied by 0 is 0.
- If the product is 0, one or more of the factors must equal 0.

EX: $a \times b \times c \times d = 0$ $a, b, c,$ or d must equal 0.

- If the product is not equal to 0, none of the factors equals 0.

EX: $a \times b \times c \times d \neq 0$ $a, b, c,$ and $d \neq 0$.

Divisibility

- An integer is divisible by 2 if the last digit in the integer is divisible by 2.

EX: 8,542,634

4 is divisible by 2.

Therefore, 8,542,634 is divisible by 2.

- An integer is divisible by 3 if the sum of the digits in the integer is divisible by 3.

EX: 865,237

$8 + 6 + 5 + 2 + 3 + 7 = 33$.

33 is divisible by 3.

Therefore, 865,237 is divisible by 3.

- An integer is divisible by 4 if the last digit in the integer is divisible by 4.

EX: 5,243,624

24 is divisible by 4.

Therefore, 5,243,624 is divisible by 4.

- An integer is divisible by 5 if the last digit in the integer is 0 or 5.

EX: 6,842,370

The last digit is 0.

Therefore, 6,842,370 is divisible by 5.

- An integer is divisible by 6 if the integer is divisible by both 2 and 3.

EX: 358,416

$3 + 5 + 8 + 4 + 1 + 6 = 27$

27 is divisible by 3.

6 is divisible by 2.

Therefore, 358,416 is divisible by 6.

- An integer is divisible by 9 if the sum of the digits in the integer is divisible by 9.

EX: 626,874

$6 + 2 + 6 + 8 + 7 + 4 = 27$

27 is divisible by 9.

Therefore, 626,874 is divisible by 9.

Odd & Even Integers

- A number is even if the last digit in the number is 0, 2, 4, 6, or 8.

EX: 6,584,298

The last digit of the number is 8.

Therefore, 6,584,298 is even.

- A number is odd if the last digit in the number is 1, 3, 5, 7, or 9.

EX: 2,651,869

The last digit of the number is 9.

Therefore, 2,651,869 is odd.

- An even integer can be represented as $2k$, where k is an integer.

- An odd integer can be represented as $2k + 1$ or $2k - 1$, where k is an integer.

Rules for Adding & Multiplying Odd & Even Numbers

1. Odd + Odd = Even
2. Even + Even = Even
3. Odd + Even = Odd
4. Odd × Odd = Odd
5. Even × Even = Even
6. Odd × Even = Even

Prime Numbers & Factors

- Factors of an integer are integers that can be divided evenly into the integer.

EX: The factors of 24 are 1, 2, 3, 4, 6, 8, 12, and 24.

- **Prime number:** Number that can only be divided evenly by itself and 1.

EX: 19 is a prime number.

- The prime numbers up to twenty are 2, 3, 5, 7, 11, 13, 17, and 19.

- 0 and 1 are never prime numbers.

- 2 is the only even prime number.

Least Common Multiple

- The least common multiple of two or more numbers is the smallest number that is a multiple of each of the original numbers.

EX: The least common multiple of 3 and 13 is 39.

The multiples of 3 are 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, etc.

The multiples of 13 are 13, 26, 39, etc.

39 is the smallest number that intersects these lists.

Exponents

- When multiplying two numbers with the same base, add the exponents.

EX: $8^2 \times 8^2 = 8 \times 8 \times 8 \times 8 \times 8 \times 8 \times 8 \times 8$

- When dividing two numbers with the same base, subtract the exponents.

EX: $2^7 \div 2^2 = (2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2) \div (2 \times 2) = 2^5$

- When multiplying two numbers with the same exponent, multiply the bases.

EX: $4^2 \times 5^2 = 4 \times 4 \times 4 \times 5 \times 5 \times 5 = 20^2$

- When raising a number to a negative exponent, remove the negative sign and divide 1 by the number. This is also known as taking the reciprocal of the number.

EX: $3^{-1} = 1 \div 3^1 = 1 \div 3 = \frac{1}{3}$

Properties of Exponents

- Raising a number greater than 1 to a positive integer exponent will produce a bigger number, while raising a number less than 1 to a positive integer exponent will produce a smaller number.

EX: $4^2 = 4 \times 4 = 4 \times 4 = 16$

EX: $25^2 = .25 \times .25 \times .25 \times .25 \times .25 = 0.0009765625$

- Any number not equal to 0 raised to an even power will be positive.

EX: $3^2 = 3 \times 3 = 3 \times 3 = 9$

EX: $(-3)^2 = -3 \times -3 = -3 \times -3 = 9$

- 0 raised to any exponent except for 0 equals 0.

EX: $0^2 = 0 \times 0 = 0 \times 0 = 0$

- Any number except for 0 raised to the 0 equals 1.

EX: $4^0 = 1$

Order of Operations

Parentheses, Exponents, Multiplication, Division, Addition, Subtraction

- Calculations inside parentheses should be performed first.

- All exponents should then be calculated.

- Next, do multiplication and division, moving from left to right.

- Then, do addition and subtraction, moving from left to right.

EX: $5 + (6 \times 4 - 3) - 13$

Perform multiplication inside the parentheses:

$5 + (24 - 3) - 13$

Subtract inside the parentheses: $5 + 21 - 13$

Add: $26 - 13$

Subtract: 13

Scientific Notation

- To convert a number to scientific notation, break the number into two factors. The first factor is a number greater than or equal to 1 and less than 10. The second factor is 10 raised to an integer exponent.

EX: 65,000,000 in scientific notation is 6.5×10^7

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Table of Contents Gre Quantitative Study Guide

1. Understanding the eBook Gre Quantitative Study Guide
 - The Rise of Digital Reading Gre Quantitative Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Gre Quantitative 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 Gre Quantitative Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gre Quantitative Study Guide
 - Personalized Recommendations
 - Gre Quantitative Study Guide User Reviews and Ratings
 - Gre Quantitative Study Guide and Bestseller Lists
5. Accessing Gre Quantitative Study Guide Free and Paid eBooks
 - Gre Quantitative Study Guide Public Domain eBooks
 - Gre Quantitative Study Guide eBook Subscription Services
 - Gre Quantitative Study Guide Budget-Friendly Options
6. Navigating Gre Quantitative Study Guide eBook Formats

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