

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.

$$\text{EX: } -2, 0, 18$$

Identity Properties

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

$$\text{EX: } 8 + 0 = 8 \quad \text{EX: } y + 0 = y$$

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

$$\text{EX: } 6 \times 1 = 6 \quad \text{EX: } y \times 1 = y$$

Properties of Zero

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

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

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

$$\text{EX: } a \times b \times c \times d \neq 0 \quad a, b, c, \text{ and } d \neq 0.$$

Divisibility

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

$$\text{EX: } 8,542,634$$

$$4 \text{ is divisible by } 2.$$

$$\text{Therefore, } 8,542,634 \text{ is divisible by } 2.$$

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

$$\text{EX: } 865,237$$

$$8 + 6 + 5 + 2 + 3 + 7 = 31.$$

$$31 \text{ is divisible by } 3.$$

$$\text{Therefore, } 865,237 \text{ is divisible by } 3.$$

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

$$\text{EX: } 5,243,624$$

$$24 \text{ is divisible by } 4.$$

$$\text{Therefore, } 5,243,624 \text{ is divisible by } 4.$$

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

$$\text{EX: } 6,842,370$$

$$\text{The last digit is } 0.$$

$$\text{Therefore, } 6,842,370 \text{ is divisible by } 5.$$

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

$$\text{EX: } 358,416$$

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

$$27 \text{ is divisible by } 3.$$

$$\text{Therefore, } 358,416 \text{ is divisible by } 6.$$

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

$$\text{EX: } 626,874$$

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

$$27 \text{ is divisible by } 9.$$

$$\text{Therefore, } 626,874 \text{ is divisible by } 9.$$

Odd & Even Integers

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

$$\text{EX: } 6,584,298$$

$$\text{The last digit of the number is } 8.$$

$$\text{Therefore, } 6,584,298 \text{ is even.}$$

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

$$\text{EX: } 2,651,869$$

$$\text{The last digit of the number is } 9.$$

$$\text{Therefore, } 2,651,869 \text{ is odd.}$$

- 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.

$$\text{EX: The factors of } 24 \text{ are } 1, 2, 3, 4, 6, 8, 12, \text{ and } 24.$$

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

$$\text{EX: } 19 \text{ is a prime number.}$$

- 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.

$$\text{EX: The least common multiple of } 3 \text{ and } 13 \text{ is } 39.$$

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

$$\text{The multiples of } 13 \text{ are } 13, 26, 39, \text{ etc.}$$

$$39 \text{ is the smallest number that intersects these lists.}$$

Exponents

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

$$\text{EX: } 8^2 \times 8^2 = 8 \times 8 \times 8 \times 8 \times 8 \times 8 \times 8 \times 8$$

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

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

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

$$\text{EX: } 4^2 \times 5^2 = 4 \times 4 \times 4 \times 4 \times 5 \times 5 \times 5 \times 5$$

- 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.

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

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.

$$\text{EX: } 4^2 = 4 \times 4 \times 4 \times 4 \times 4 = 1024$$

$$\text{EX: } .25^2 = .25 \times .25 \times .25 \times .25 \times .25 = 0.0009765625$$

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

$$\text{EX: } 3^2 = 3 \times 3 \times 3 \times 3 = 81$$

$$\text{EX: } (-3)^2 = -3 \times -3 \times -3 \times -3 = 81$$

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

$$\text{EX: } 0^2 = 0 \times 0 \times 0 \times 0 = 0$$

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

$$\text{EX: } 4^0 = 1$$

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.

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

$$\text{Perform multiplication inside the parentheses: } 5 + (24 - 3) - 13$$

$$5 + (21) - 13$$

$$\text{Subtract inside the parentheses: } 5 + 21 - 13$$

$$\text{Add: } 26 - 13$$

$$\text{Subtract: } 13$$

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.

$$\text{EX: } 65,000,000 \text{ in scientific notation is } 6.5 \times 10^7$$

Gre Quantitative Study Guide

PT Brinkman

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

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