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 ≠ 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: 865,257
    - $8 + 6 + 5 + 2 + 5 + 7 = 33$
    - 33 is divisible by 3.
    - Therefore, 865,257 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: 6,842,570
    - The last digit is 0.
    - Therefore, 6,842,570 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: 628,074
    - $6 + 2 + 8 + 0 + 7 + 4 = 27$
    - 27 is divisible by 9.
    - Therefore, 628,074 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: 6,586,298
    - The last digit of the number is 8.
    - Therefore, 6,586,298 is even.
- A number is odd if the last digit in the number is 1, 3, 5, 7, or 9.
  - EX: 2,851,869
    - The last digit of the number is 9.
    - Therefore, 2,851,869 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.

- $8^2 \times 8^4 = 8 \times 8 \times 8 \times 8 \times 8 \times 8 = 8^6$
- When dividing two numbers with the same base, subtract the exponents.
  - EX: $7^5 \div 7^3 = (7 \times 7 \times 7 \times 7 \times 7) \div (7 \times 7) = 7^2$
- When multiplying two numbers with the same exponent, multiply the bases.
  - EX: $4^3 \times 5^3 = 4 \times 4 \times 4 \times 5 \times 5 \times 5 = 20^3$
- 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: $3^{-2} = 1 \div 3^2 = 1 \div 9 = \frac{1}{9}$

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: $4^5 = 4 \times 4 \times 4 \times 4 \times 4 = 1024$
  - EX: $.25^5 = .25 \times .25 \times .25 \times .25 \times .25 = 0.0009765625$
- Any number not equal to 0 raised to an even power will be positive.
  - EX: $3^4 = 3 \times 3 \times 3 \times 3 = 81$
  - EX: $(-3)^4 = -3 \times -3 \times -3 \times -3 = 81$
- 0 raised to any exponent except for 0 equals 0.
  - EX: $0^5 = 0 \times 0 \times 0 \times 0 \times 0 = 0$
- 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.
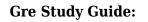 - EX: $5 + (6 \times 4 - 3) - 13$
    - Perform multiplication inside the parentheses: $5 + (24 - 3) - 13$
    - Subtract inside the parentheses: $5 + 21 - 13$
    - Add: $26 - 13$
    - Subtract: 13

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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