

# GRE Quantitative Reasoning

## OVERVIEW

- There are two sections with about 20 questions each.
- Each section should last about 35 minutes.
- An on-screen 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.

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

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

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

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

#### 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: 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.

$$\text{EX: } 8^7 \times 8^2 = 8 \times 8$$

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

$$\text{EX: } 7^8 \div 7^2 = (7 \times 7 \times 7 \times 7 \times 7 \times 7 \times 7 \times 7) \div (7 \times 7) = 7^6$$

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

$$\text{EX: } 4^2 \times 5^2 = 4 \times 4 \times 4 \times 5 \times 5 = 20^2$$

- 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.

$$\text{EX: } 3^{-2} = 1 \div 3^2 = 1 \div 9 = \frac{1}{9}$$

#### 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:  $25^{-2} = 25 \times 25 \times 25 \times 25 = 25 \times 25 = 0.0009765625$
- Any number not equal to 0 raised to an even power will be positive.
- EX:  $3^2 = 3 \times 3 \times 3 \times 3 = 81$
- EX:  $(-3)^2 = -3 \times -3 \times -3 \times -3 = 81$
- 0 raised to any exponent except for 0 equals 0.
- EX:  $0^4 = 0 \times 0 \times 0 \times 0 = 0$
- 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 divisions, 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  $6.5 \times 10^7$

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**Roman Wölfel**



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