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Questions

1. In computer science, what does $O(1)$ describe in terms of algorithm efficiency?

- A. Logarithmic complexity
- B. Constant complexity
- C. Linear complexity
- D. Quadratic complexity

2. In number theory, what makes 1 a special number?

- A. It is neither prime nor composite
- B. Even number
- C. The smallest prime number
- D. Composite number

3. Which mathematical property states that a number multiplied by 1 remains unchanged?

- A. Identity property
- B. Commutative property
- C. Associative property
- D. Distributive property

4. What is the multiplicative inverse of the number 1?

- A. Undefined
- B. 1
- C. -1
- D. 0

5. How is the number 1 classified in standard modern mathematics?

- A. Even number
- B. Neither even nor odd
- C. Both even and odd
- D. Odd number

6. What is the second number in the Fibonacci sequence?

- A. 2
- B. 3
- C. 1
- D. 0

7. In linear algebra, what is a 1x1 matrix with a value of 1 called?

- A. Identity matrix
- B. 0 matrix
- C. Zero matrix
- D. Singular matrix

8. In Boolean logic, what does the number 1 typically represent?

- A. Doubt
- B. Falsehood
- C. Truth
- D. Illusion

9. What is the factorial of the number 1?

- A. 0
- B. 2
- C. 10
- D. 1

10. In music theory, which interval involves two notes of the same pitch?

- A. Fifth
- B. Unison
- C. Octave
- D. Third