

1

Questions

1. What mathematical property does the number 555 possess?

- A. Perfect cube
- B. Complex number
- C. Odd
- D. Even

2. In terms of binary conversion, what is notable about the binary representation of 555?

- A. It is exactly 10 digits long
- B. It starts with multiple ones
- C. It ends in multiple zeroes
- D. It is symmetrical

3. In digital electronics, what is the relevance of the 555 number? Specifically, in context to its usage and function?

- A. It's a widely used IC timer in digital circuits
- B. It's a 0.555V zener diode used in voltage regulation circuits
- C. It's a standard power rating for resistors
- D. It's a unique code for decoding specific digital signals

4. What is the remainder when 555 is divided by 9 in modular arithmetic?

- A. It results in a repeating decimal in the quotient
- B. The remainder is 5
- C. The same as when 555 is divided by 3
- D. 0

5. How would 555 be treated within modular arithmetic involving mod 100?

- A. Completely divisible with no remainder
- B. Non-reducible due to its structure
- C. Results in a large remainder
- D. Yields a remainder of 55

6. In the framework of cellular automata, what could the number 555 represent?

- A. A transitional pattern
- B. A repeating cycle
- C. The initial state
- D. A chaotic state