

Name: _____

Date: _____

Class: _____



Bits

1. How many possible values can you represent with 2 binary digits?

- A. 0
- B. 2
- C. 4
- D. 8

2. Which of the following scenarios cannot be represented by a boolean variable?

- A. Whether a light switch is on or off
- B. Whether an exam is complete or incomplete
- C. The value of an ASCII character
- D. Whether a letter is a capital letter or not

3. What is the minimum number of bits you would need to represent a number on a 0 to 10 scale?
- A. 1
 - B. 2
 - C. 4
 - D. 10
4. What is the greatest value you can represent using 8 bits? (assuming all of them are positive numbers)
- A. 7
 - B. 8
 - C. 255
 - D. 256
5. How many values can you represent with 3 binary digits?
- A. 3
 - B. 4
 - C. 8
 - D. 16