

## on Bits and Bit Patterns

**Instructions:** For each question, choose the single best answer. Make your choice by clicking on its button. You can change your answers at any time. When the quiz is graded, the correct answers will appear in the box after each question.

	1.	How many	patterns	can be	formed	with a	single	bit?
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- O A. 1
- **B**. 2
- OC. 4
- OD. 8

В

2. How many patterns can be formed with three I	bits	?
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- O A. 1
- B. 3
- **C**. 8
- **D**. 12

С

## 3. How many patterns can be formed from N bits?

- O A. N
- $\bigcirc$  **B**.  $\mathbb{N}^2$

- **○** C. 2<sup>N</sup>
- **D.** 2\*N

С

- 4. What is  $2^4 * 2^3$ ?
  - $\bigcirc$  **A**.  $8^2$
  - $\bigcirc$  **B**.  $2^6$
  - $\circ$  C.  $2^{\frac{1}{2}}$
  - $\bigcirc$  **D.**  $2^{12}$

С

- 5. How many bits are in a **nibble**?
  - O A. 2
  - **○** B. 4
  - **C.** 8
  - **D.** 16

В

- 6. What is the name for the bit pattern 0000 0010 ?
  - A. 0x0002
  - **B.** 0x02
  - C. 0xA0
  - **D.** 0x201

В

7. What is the name for the bit pattern 101010?

○ <b>A</b> .	0xA2	
○ B.	0x222	
○ <b>C</b> .	This pattern can not be named.	
<ul><li>D.</li></ul>	0x2A	
D		
8. Say that described?	you read that a particular computer "uses hexadecimal". What is being	
○ <b>A</b> .	the fundamental hardware of the processor chip.	
<ul><li>B.</li></ul>	a convention used in written documentation of the computer.	
○ <b>C</b> .	the type of arithmetic carried out by the computer.	
○ <b>D</b> .	the type of signals used on the computer's bus.	
В		
9. What is the	ne name for the convention where bits are named in groups of three?	
○ <b>A</b> .	Trinary	
○ В.	Sextuple	
○ <b>C</b> .	Tridecimal	
<ul><li>D.</li></ul>	Octal	
D		
10. How ma	iny bytes are in a kilobyte?	
○ A.	8	
○ B.	1000	
<b>○</b> C.	1024	

С

grade quiz

The number you got right:

10

Percent Correct:

100

Letter Grade:

Α



If you have returned here from another page, or have re-loaded this page, you will need to click again on each of your choices for the grading program to work correctly. You may want to press the SHIFT KEY while clicking to clear the old answers.