

**Unit 1 Worksheet 2 - Binary Numbers**

1 of 1

Pts: 15

Name \_\_\_\_\_

class hour \_\_\_\_\_

Answer the following - (1 point each)

I. Write the binary numbers below as decimal (base 10) numbers

- |             |          |
|-------------|----------|
| 1) 111      | 1) _____ |
| 2) 1010     | 2) _____ |
| 3) 10100    | 3) _____ |
| 4) 1000001  | 4) _____ |
| 5) 10101010 | 5) _____ |
| 6) 11010101 | 6) _____ |

II. Write the decimal numbers below as binary (base 2) numbers

- |        |          |
|--------|----------|
| 1) 9   | 1) _____ |
| 2) 15  | 2) _____ |
| 3) 71  | 3) _____ |
| 4) 101 | 4) _____ |
| 5) 200 | 5) _____ |
| 6) 240 | 6) _____ |

III. Answer the following

- |   |          |
|---|----------|
| 1) What is the largest decimal number that can be stored in a byte? | 1) _____ |
| 2) (True or False) A BIT can store a single character.              | 2) _____ |
| 3) How many bits are in a byte?                                     | 3) _____ |

**Extra Credit:** Convert 245 to a hexadecimal (base 16) number. E.C.) \_\_\_\_\_