Number Systems Test 1

1. Convert the following numbers from binary to decimal.
   1. 101 b. 1001

|  |  |  |  |
| --- | --- | --- | --- |
| 8 | 4 | 2 | 1 |
|  |  |  |  |

|  |  |  |
| --- | --- | --- |
| 4 | 2 | 1 |
|  |  |  |

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Convert the following numbers from hex to decimal.  
   **Hex Digits:** 0 1 2 3 4 5 6 7 8 9 A B C D E F
   1. A b. B3

|  |  |
| --- | --- |
| 16 | 1 |
|  |  |

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Convert the following binary numbers to hex.
   1. 10100011 b. 100011110001

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Convert the following decimal numbers to binary.
   1. 23 b. 69

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 16 | 8 | 4 | 2 | 1 |
|  |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 64 | 32 | 16 | 8 | 4 | 2 | 1 |
|  |  |  |  |  |  |  |

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Convert the following hexadecimal numbers to binary.
2. C b. 2A

2

A

|  |  |  |  |
| --- | --- | --- | --- |
| 8 | 4 | 2 | 1 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| 8 | 4 | 2 | 1 |
|  |  |  |  |
|  | | | |

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_