Convert the following Binary numbers to Decimal:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | (0001100)2 |  | ( 84 ) 10 |
| b. | (00110101) 2 |  | ( 53 ) 10 |
| c. | (11011011) 2 |  | ( 435 ) 10 |
| d. | (01101001) 2 |  | ( 105 ) 10 |

State whether the following statements are True or False:

1. (1000)2 < (4)10 –**2^3= 8(true**
2. (0111)2 = (0111)10 false
3. (0010)2 > (3)10 ( false)
4. (1001)2 < (1101)2 false

Convert the following Decimal numbers to their equivalent in Binary system:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | (25)10 |  | ( 11001 ) 2 |
| b. | (37) 10 |  | ( 100101 ) 2 |
| c. | (35) 10 |  | ( 100011 ) 2 |
| d. | (400) 10 |  | ( 110010000 ) 2 |
| e. | (547) 10 |  | ( ) 2 |

Convert the following numbers octal and hexadecimal bases to decimal:

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | (72)8 |  | ( ) 10 |
| 2. | (72) 16 |  | ( ) 10 |
| 3. | (DE1) 16 |  | ( ) 10 |
| 4. | (11001) 8 |  | ( ) 10 |
| 5. | (ACE) 16 |  | ( ) 10 |
| 6. | (1001) 16 |  | ( ) 10 |
|  |  |  |  |
|  |  |  |  |