CSC201 Practice Exercise 1 Your Name: Elick Coval\_\_\_\_\_\_\_\_\_\_\_

**Convert** the given numbers as specified.  
(Don't use a calculator -- you won't be able to use a calculator on exams, so you should learn how to do this without one.)   
**After** you have performed the calculations using your brain, verify your results using a calculator.

|  |  |
| --- | --- |
| **Decimal** | **Binary** |
| 23   (What binary numeral will this end in?) | 1 |
| 148 | 10010100 |
| 222 | 11011110 |
| 39 | 00100111 |
| 94 | 01011110 |
|  |  |
| **Binary** | **Decimal** |
| 11010000b | 208 |
| 10000001b | 129 |
| 01111111b  (Can you find a shortcut to solve this?) | 127 |
| 10101010b | 170 |
| 01010101b  (How can you tell if this is an even or odd number?) | 85 |
|  |  |
| **Octal** | **Decimal** |
| 10o | 8 |
| 110o | 72 |
| 274o | 188 |
| 1254o | 684 |
|  |  |
| **Hexadecimal** | **Decimal** |
| 2h | 2 |
| 18h | 24 |
| 47h | 71 |
| 111h | 273 |
|  |  |
| **Binary** | **Hexadecimal** |
| (Hint: Each hexadecimal digit represents 4 bits.) | |
| 11101010b | EA |
| 11111111b | FF |
| 01000001b | 41 |
| 00001111b | F |
|  |  |
| **Hexadecimal** | **Binary** |
| (Hint: Each hexadecimal digit represents 4 bits.) | |
| 0Ah | 00001010 |
| 11h | 00010001 |
| 29h | 00101001 |
| 37h | 00110111 |