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Lab 4 - Radix Conversion Worksheet

Convert:

1. 0x4F45 into octal 4F45 = 0100 1111 0100 0101 Binary 0 100 111 101 000 101 = **4 7 5 0 5**

2.
$$269_{10}$$
 into radix 7 $269/7 = 38r3$ $38/7 = 5r3$ $5/6 = 0r5$ $= 533$

3. 110011011110₂ into decimal

$$2^{1} + 2^{2} + 2^{3} + 2^{4} + 2^{6} + 2^{7} + 2^{10} + 2^{11} = 2 + 4 + 8 + 16 + 64 + 128 + 1024 + 2048 = 3294$$

4.
$$2BD_{19}$$
 into decimal $2x19^2 + 11x19^1 + 13x19^0 = 944$

- 5. Given the following positive binary integer in two's complement: 010100110111101
 - a) Convert the number to hexadecimal:

 $0101\ 0011\ 0101\ 1101 = 5\ 3\ 5\ D$

b) Negate the number. 1010 1100 1010 0010 + 1 = **1010 1100 1010 0011**