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1. Convert from decimal to binary:
    a. 234 = 11101010
    b. 555 = 1000101011
    c. 12321 = 11000000100001
    d. 152 = 10011000
    e. 32768 = 1000000000000000

2. Convert from binary to decimal:
    a. 100000000 = 256
    b. 1011110100 = 756
    c. 10011101 = 157
    d. 11111111111 = 2047

3. Convert from hexadecimal to binary:
    a. 45A0 = 100 0101 1010 0000
    b. CF = 1100 1111
    c. AAB2 = 1010 1010 1011 0010
    d. 3020 = 11 0000 0010 0000

4. Convert from binary to hexadecimal:
    a. 0001 1000 1000 = 188
    b. 0001 0001 0110 = 116

5. Complete the following conversions related to octal numeral system:
    a. Convert the numbers from exercise 4 to octal. 110 001 0002 = 610,
        100 010 1102 = 426
    b. Convert the octal 3020 to binary: 11000010000

6. Fill the gaps, using all the conversions you need. You have to write the steps to transform each number.

    -the first is like the last and the second like the thirst

BINARY	DECIMAL	HEXADECIMAL	OCTAL
100001	**33**	21	41
1111 1111	255	**FF**	377

    a.

7. How many bits do you need to represent the following numbers in binary?
    hexadecimal: 4B (7), 4AA (11), FF4FA (20), 345F (14)
    decimal: 100 (7), 256 (9), 255 (8), 32 (6), 31 (5), 3 (2), 4350 (13), 1024 (11), 45 (6),230 (31, remember that is 1 and the number of 0 corresponding with the exponent), 63(6)