## CMSI2210 CW#1 Binary<>Decimal

Convert 1012 to decimal

5 Y

Convert 10101012 to decimal

85 Y

Convert 01010102 to decimal

$$2 + 8 + 32 = 42 \text{ Y}$$

Convert 1111111112 to decimal

NOT: 
$$2^8 = 256$$

$$1 + 2 + 4 + 8 + 16 + 32 + 64 + 128 = 127 + 128 = 255 \text{ Y}$$

Convert 11001100110011012 to decimal

NOT: 52, 529

52,429 Y

NOT: 1,048,569

$$\Sigma$$
(i=0,19)(2^n) = 1,048,575 Y

Convert 1111000011112 to decimal

$$15 + 3840 = 3855 \text{ Y}$$

Convert 1000000000002 to decimal

$$2^{11} = 2048 \text{ Y}$$

Convert 101010111110011011111011112 to decimal

11,259,375 Y

Convert 5421<sub>10</sub> to binary

1010100101101 Y

Convert 8010 to binary

NOT: 0000101

1010000 (Top is least significant bit) Y

Convert 12345<sub>10</sub> to binary

11000000111001 Y

Convert 15<sub>10</sub> to binary

## 1111 Y

Convert 65535<sub>10</sub> to binary

Convert 32767<sub>10</sub> to binary

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