

Problem 5

Given a binary represented number:

$$(0011101101010111)_2 =$$

$$\underbrace{0011} \quad \underbrace{1011} \quad \underbrace{0101} \quad \underbrace{0111}$$



$$2+1=3$$

$$8+2+1=$$

$$4+1=5$$

$$4+2+1=7$$

$$11=B$$

$$= (3B57)_{16}$$



Hexadecimal representation of
a number.

* Each 4 binary digits represent one ^{hexa}decimal digit:

$$0011$$



$$0 \cdot 2^3 + 0 \cdot 2^2 + 1 \cdot 2^1 + 1 \cdot 2^0 = \underline{3} \quad (\text{as example})$$