

#1. d  $\rightarrow$   $101110 \rightarrow$  base 16

$$1011 \div 16 = 63 \text{ (}.1875 \times 16) = 3$$

$$63 \div 16 = 3 \text{ (}.9375 \times 16) = 15$$

$$3 \div 16 = 0 \text{ (}.1875 \times 16) = 3$$

$$= 3F3_{16}$$

$$= 001111110011_2$$

$$e \rightarrow 0xEE = \overbrace{1110}^E \overbrace{1110}^E_2$$

$$= (16^1 \times 14_{10}) + (16^0 \times 14_{10})$$

$$= 224 + 14$$

$$= 238_{10}$$

#2  $\rightarrow$   $17_{10}$  sur 5 bits.

$$2^4 + 2^0 \rightarrow 10001_2$$

#3. a  $\rightarrow$   $01101_2$

c. a. z sur 5 bits.

$$= 2^3 + 2^2 + 2^0$$

$$= 8 + 4 + 1$$

$$= 13_{10}$$

b  $\rightarrow$   $10011_2$

$$= (-2^4) + (2^1) + (2^0)$$

$$= -16 + 2 + 1$$

$$= -13_{10}$$