

①

1.000 * 2⁰

Exponent: $04127 = 127$

Manissa: 0000 0000 0000 0000 0000 0000 0000 0000

∴ Number Representation:

0 0111 1111 0000 0000 0000 0000 0000 0000

2

12-375

$$12_{10} = 1100 \cdot 01100 = 1100011 \cdot 2^3$$

$$0.375 \times 2 = 0.75$$

$$0.75 \times 2 = 1.5$$

$$0.5 \times 2 = 1$$

Exponent: $127 + 3 = 130$

∴ Number Representation

0 100000 10 1000 1100 0000 0000 0000 000

- 0.25

$$0.25 \times 2 = 0.5$$

$$0.5 \times 2 = 1.0$$

$$0.25 = 0.0100101100 \cdot 2^{-2}$$

∴ number Representation:

~~D~~ 1 0 1 1 1 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0