

3.25

$$63.25 = 111111.01 \times 2^0$$

$$= .0011111101 \times 16^2$$

sign = 0

exponent = 2 + 64 = 66

mantissa: .0011111101

= . ~~3E~~

3F40

3.26 -1.5625×10^{-1}

= -0.15625×10^0

= -0.00101×2^0

= -0.101×2^{-2}

exponent: -2 Fraction = $-0.101000...00$

1111111110 1011000...0

3.2

5ED4

07A4

5730

3.6 185 → ~~10111001~~ 10111001
 121 → ~~01111010~~ 01111010
 11111 00111111

4 3

neither over or under flow

3.9

151

~~122~~

214

10010111
11010110
 01101101

overflow
 saturation
 = -128
 largest -ve number