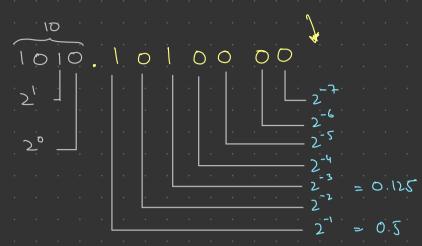
1. Fractions





32-bits - IEEE 754 Standard

$$0.375 \times 2 = 0.75$$

$$0.5 \times 2 = 1.0$$

Stopping Point

Step 2: Find Exponent (Biased)

$$=(131)_{10}$$

Step 3: Find Mantisca 10011.10011 Mantissa is the "remainder" 0 10000001 0011.10011 Example 2: 15.0 15/2 = 7 rem | 1 3/2 = 1 " | 1 1/2 = 0 " | Step1 : 000000 $3 + 127 = (130)_{10} \rightarrow 10000010$ Step 2: Step3: 0 10000010111.0000 Reverse Operation: Step 1: Add leading 1 to matissa Step 2: Find Exponent 10000010 0000000 1111.000000

<u>—</u> 15.000000000000

Let's see some code...