

## Lab NASA Format

0.2<sub>10</sub>

Binary

$$0.2 \times 2^1 = 0.4$$

$$0.4 / 2 = 0.2 \text{ r } 1$$

$$0.2 / 2 = 0.1 \text{ r } 0$$

$$0.1 / 2 = 0.05 \text{ r } 0$$

$$0.05 / 2 = 0.025 \text{ r } 0$$

$$0.025 / 2 = 0.0125 \text{ r } 0$$

$$0.0125 / 2 = 0.00625 \text{ r } 0$$

$$0.00625 / 2 = 0.003125 \text{ r } 0$$

0110 0110 | 0110 0110 | 0110 0110 | 1111 1110  
6 6 6 6 6 6 F E

66.6666FE

37.25<sub>10</sub>

$$37.25 \times 2^2 = 149$$

$$149 / 2 = 74 \text{ r } 1$$

$$74 / 2 = 37 \text{ r } 0$$

$$37 / 2 = 18 \text{ r } 1$$

$$18 / 2 = 9 \text{ r } 0$$

$$9 / 2 = 4 \text{ r } 1$$

$$4 / 2 = 2 \text{ r } 0$$

$$2 / 2 = 1 \text{ r } 0$$

$$1 / 2 = 0 \text{ r } 1$$

$$100101.01_2 = 0.10010101 \times 2^6$$

0100 1010 | 0000 0000 | 0000 0000 | 0000 0110  
4 A 0 0 0 0 0 0 6

4A000006