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Lab Conversion Base 2, 8, 10, 16

$$\begin{aligned} 127_{10} &\rightarrow 127/8 = 15 R 7, 15/8 = 1 R 7, 1/8 = 0 R 1 \\ &= 177_8 \\ &= 00111111_2 \\ &= 7F_{16} \end{aligned}$$

$$\begin{aligned} &15_{16} \\ &00010101_2 \end{aligned}$$

$$25_8$$

$$2 \times 8^1 + 5 \times 8^0 = 21_{10}$$

$$\begin{aligned} &71_8 \\ &00111001_2 \\ &39_{16} \end{aligned}$$

$$3 \times 16^1 + 9 \times 16^0 = 57_{10}$$

$$\begin{aligned} &AB_{16} \\ &01010101_2 \\ &253_8 \end{aligned}$$

$$2 \times 8^2 + 5 \times 8^1 + 3 \times 8^0 = 171_{10}$$