

$$0.25_{10} \times 16 = 4.0$$

$$0 \times 16 = 0$$

$$(0.4)_{16} \Rightarrow (0.0100)_2 \Rightarrow (0.2)_8 \leftarrow \begin{array}{c} 0.0100 \\ \underbrace{\phantom{0.0100}}_{2_8} \end{array}$$

CHECK:

$$0.25 = \frac{25}{100} \Rightarrow \frac{4}{16} \Rightarrow \frac{1}{4} \Rightarrow \frac{2}{8}$$

$$\frac{1}{4} = \frac{1}{4} = \frac{1}{4} = \frac{1}{4} \quad \checkmark$$

$$0.25_8 = \frac{2}{8} + \frac{5}{8^2} = \frac{2}{8} + \frac{5}{64} = \frac{16}{64} + \frac{5}{64} = \frac{21}{64}$$

$$= 0.328125_{10}$$

$$0.328125 \times 16 = 5.25$$

$$0.25 \times 16 = 4.0$$

$$0 \times 16 = 0$$

$$\left. \begin{array}{l} 0.328125 \times 16 = 5.25 \\ 0.25 \times 16 = 4.0 \\ 0 \times 16 = 0 \end{array} \right\} (0.54)_{16} = (0.01010100)_2$$

$$= 0.010101_2$$

$$0.25_{16} = (0.00100101)_2 = (0.112)_8 \leftarrow \begin{array}{c} 0.00100101 \\ \underbrace{\phantom{0.00100101}}_{1_8} \underbrace{\phantom{0.00100101}}_{1_8} \underbrace{\phantom{0.00100101}}_{2_8} \end{array}$$

$$\frac{2}{16} + \frac{5}{16^2} = \frac{2}{16} + \frac{5}{256} = \frac{32+5}{256} = \frac{37}{256} = 0.14453125_{10}$$

$$(0.1101)_2 = (0.D)_{16} = (0.64)_8 \leftarrow \begin{array}{c} 0.110100 \\ \underbrace{\phantom{0.110100}}_{6_8} \underbrace{\phantom{0.110100}}_{4_8} \end{array}$$

$$D_{16} = \frac{13}{16} = 0.8125_{10}$$

BASE 2	BASE 8	BASE 10	BASE 16
0.0100	= 0.2	= 0.25	= 0.4
0.010101	= 0.25	= 0.328125	= 0.54
0.00100101	= 0.112	= 0.14453125	= 0.25
<u>0.1101</u>	= 0.64	= 0.8125	= <u>0.D</u>