

0.25_{10}

$$0.25 \times 2 = 0.5$$

$$0.5 \times 2 = 1.0$$

$$0.25_{10} = 0.01_2$$

$$0 \times 2^{-1} = 0$$

$$1 \times 2^{-2} = 1 \times (0.25) = 0.25_{10}$$

$$0.25 \times 8 = 2.0$$

$$0.25_{10} = 0.2_8$$

$$2 \times 8^{-1} =$$

$$2 \times (0.125) = 0.25_{10} \checkmark$$

$$0.25 \times 16 = 4.0$$

$$0.25_{10} = 0.4_{16}$$

$$4 \times 16^{-1}$$

$$4 \times (0.0625) = 0.25_{10} \checkmark$$

$0.25_{10} = 0.01_2 = 0.2_8 = 0.4_{16}$

0.25_8

$$0.25_8$$

$$2 \times 8^{-1} = 2 \times (0.125) = 0.25$$

$$5 \times 8^{-2} = 5 \times (0.015625) = 0.078125$$

$$+ = 0.328125_{10}$$

$$0. \quad 2 \quad 5$$

$$\downarrow \quad \downarrow$$

$$010 \quad 101$$

$$= 0.010101_2$$

$$= 0. \underline{0101} \quad \underline{0100}$$

$$0. \quad 5 \quad 4 \Rightarrow 0.54_{16}$$

$0.25_8 = 0.328125_{10} = 0.54_{16} = 0.010101_2$

0.25_{16}

$$0.25_8$$

$$2 \times 16^{-1} = 2 \times (0.0625) = 0.125$$

$$5 \times 16^{-2} = 5 \times (0.00390625) = 0.01953125_{10}$$

$$0. \quad 2 \quad 5$$

$$\downarrow \quad \downarrow$$

$$0. \quad 0010 \quad 0101$$

$$0.00100101_2$$

$$0. \underline{001} \quad \underline{001} \quad \underline{010}$$

$$0. \quad 1 \quad 1 \quad 2_8$$

$$= 0.112_8$$

$0.25_{16} = 0.1453125_{10} = 0.00100101_2 = 0.112_8$

0.1101_2

$$0. \underline{1101}$$

$$\downarrow$$

$$= 0. D_{16}$$

$$0. \underline{110} \quad \underline{100}$$

$$0. \quad 6 \quad 4 \quad 8$$

$$0.1101$$

$$1 \times 2^{-1} = (0.5)$$

$$1 \times 2^{-2} = (0.25)$$

$$0 \times 2^{-3} = (0.125)$$

$$1 \times 2^{-4} = (0.0625)$$

$$0.5$$

$$0.25$$

$$+ 0.0625$$

$$\underline{0.8125}_{10}$$

$0.1101_2 = 0.D_{16} = 0.64_8 = 0.8125_{10}$