$$0.5^{*}2 = 1.0$$

 0.25_{10} is 0.1_{2}

2)
$$0.258$$
= $2 \times 10^{-2} + 5 \times 8^{-2}$

$$6.3125 \times 2 = 0.625$$

$$0.625 \times 2 = 1.25$$

$$0.25 \times 2 = 0.5$$

$$0.5 \times 2 = 1.0$$

$$0.25 \times 16 = 4.0$$

3)
$$0.25_{16}$$

= $2 \times 16^{-1} + 5 \times 16^{-2}$

$$0.3125 \times 2 = 0.625$$

 $0.625 \times 2 = 1.25$

$$0.25 \times 2 = 0.5$$

$$= 1 \times 2^{-1} + 1 \times 2^{-2} + 0 \times 2^{-3} + 1 \times 2^{-1}$$

$$= 0.8125$$

 $0.8125 \times 8 = 6.5$ $0.5 \times 8 = 4.0$ 0.1101_2 is 0.468 $0.8125 \times 16 = 13.0$ 0.1101_2 is 0.0