

Base 10

0.25

Base 2

$$0.25 \times 2 = 0.50$$

$$0.5 \times 2 = 1.00$$

$$= 0.01$$

Base 8

$$0.25 \times 8 = 2$$

$$= 0.2$$

Base 16

$$0.25 \times 16 = 4$$

$$= 0.4$$

Base 8

0.25

Base 10

$$2 \times 8^{-1} + 5 \times 8^{-2}$$

$$0.25 + 0.078125$$

$$= 0.328125$$

Base 2

$$2 = 010$$

$$5 = 101$$

$$0010101$$

Base 16

$$0.328125 \times 16 = 5.25$$

$$0.25 \times 16 = 4$$

$$= 0.54$$

Base 16

0.25

Base 18

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

$$0.125 + 0.01953125$$

$$= 0.14453125$$

Base 8

$$0.14453125 \times 8 = 1.15625$$

$$0.15625 \times 8 = 1.25$$

$$0.25 \times 8 = 2 = 0.112$$

Base 2

$$0.14453125 \times 2 = 0.2890625$$

$$\times 2 = 0.578125$$

$$\times 2 = 1.15625$$

Base 2 cont.

0
0
1

$$0.15625 \times 2 = 0.3125$$

$$0.3125 \times 2 = 0.625$$

$$0.625 \times 2 = 1.25$$

$$0.25 \times 2 = 0.5$$

$$0.5 \times 2 = 1$$

$$= 0.00100101$$

Base 2

0.1101

Base 10

$$1 \times 2^{-1} + 1 \times 2^{-2} + 1 \times 2^{-4}$$

$$= 0.5 + 0.25 + 0.0625$$

$$= 0.8125$$

Base 8

$$0.8125 \times 8 = 6.5$$

$$.5 \times 8 = 4$$

$$= 0.64$$

Base 16

$$0.8125 \times 16 = 13$$

$$0.D$$