(a) 
$$10001100_2 \rightarrow 10 = 4+8+128 = 14010/1$$

(b)  $100111100_2 \rightarrow 8 = 2368/1$ 

(c)  $1101010_2 \rightarrow 16 = 64/1$ 

d)  $1010001_2 \rightarrow 16 = 64/1$ 

e)  $11111000_2 \rightarrow 8 = 1708/1$ 

2) b

3289110  $\rightarrow 8 = 11011111011 = 15738/1$ 
 $\frac{319}{256}$ 
 $\frac{319}{256}$ 
 $\frac{319}{256}$ 
 $\frac{319}{256}$ 
 $\frac{319}{256}$ 
 $\frac{319}{256}$ 
 $\frac{319}{256}$ 
 $\frac{31}{25}$ 
 $\frac{319}{25}$ 
 $\frac{319}{25}$ 

8) a) 
$$11111101102 \rightarrow 8 = 7668/1$$
  
b)  $100000012 \rightarrow 8 = 1018/1$   
c)  $10000102 \rightarrow 8 = 2028/1$   
d)  $11000102 \rightarrow 8 = 1428/1$ 

9) 2) 101010012 
$$\rightarrow 16 = A9_{16/1}$$
  
b) 1110011102  $\rightarrow 16 = 6E_{16/1}$   
c) 11011102  $\rightarrow 16 = 6E_{16/1}$   
d) 11211112 $\rightarrow 16 = Erro/1$ 

10) 2) 
$$A9_{16} \rightarrow 8 = 10 10 1001z = 251811$$
  
b)  $E7_{16} \rightarrow 8 = 1110 0111z = 347811$   
c)  $66_{16} \rightarrow 8 = 0110 1110z = 156811$   
d)  $FOCA_{16} \rightarrow 8 = 1111 0000 1100 1010z = 170312811$ 

11) a) 
$$7778 \rightarrow 16 = 0.0000 1012 = 185 16/1$$
  
b)  $6058 \rightarrow 16 = 0.0000 1002 = 185 16/1$   
c)  $4438 \rightarrow 16 = 100 100 0112 = 123 16/1$   
d)  $5218 \rightarrow 16 = 101 010 0012 = 151 16/1$ 

$$\frac{3}{512} \xrightarrow{0.5} \frac{3}{389} \xrightarrow{0.4} \frac{1}{6} \xrightarrow{0.000} \frac{1}{5} = \frac{16058}{16058} = \frac{101}{238} \xrightarrow{0.000} \frac{1}{5} = \frac{16058}{16058} = \frac{101}{2000} = \frac{10000}{2000} = \frac{100000}{2000} = \frac{10000}{2000} = \frac{100000}{2000} = \frac{10000}{2000} = \frac{100000}{2000} = \frac{10000}{2000} = \frac{100000}{2000} = \frac{10000}{2000} = \frac{100000}{2000} = \frac{10000}{2000} = \frac{10000}{2000} = \frac{10000}{2000} = \frac{10000}{200} = \frac{10000}{2000} = \frac{10000}{2000} = \frac{10000}{2000}$$

$$\frac{13) \text{ a)}45,0 \rightarrow 2 = 1011012}{\frac{-32}{13}}$$

$$\frac{-08}{05}$$

17) 2/366-510-56.0=30.11102=168.0

6) 83-62=21.0=10101=258.0

c) 510-364=146.0=101001102=2468.0

1802748-273=2475.0=10011010112=9AB.0

6) 2456-171-2285.0=1000111011012=8ED.0

c) 2719-329=2390.0=100101011=417.00.0

19) I byte contem 8 bits.

20) 8 bytes, logo 64 bits.

21) Se I é'impar. Se O é' par.