

Taller # 8

1. convierte a base 16 los siguientes números:

a. 611

$$611 \div 16 = 38 \text{ resto de } 3$$

$$38 \div 16 = 2 \text{ resto de } 6$$

$$2 \div 16 = 0 \text{ resto de } 2$$

263

$$\begin{array}{r} 6 \overline{) 11 \text{ L } 16} \\ 131 \quad 38 \\ 3 \end{array}$$

$$\begin{array}{r} 38 \text{ L } 16 \\ 6 \quad 2 \end{array}$$

b. 48

$$48 \div 16 = 3 \text{ resto } 0$$

$$3 \div 16 = 0 \text{ resto } 3$$

30

$$\begin{array}{r} 48 \text{ L } 16 \\ 0 \quad 3 \end{array}$$

$$\begin{array}{r} 30 \text{ L } 16 \end{array}$$

c. ~~5115~~ 5000

$$5000 \div 16 = 312 \text{ resto de } 8$$

$$312 \div 16 = 19 \text{ resto de } 8$$

$$19 \div 16 = 1 \text{ resto de } 3$$

$$1 \div 16 = 0 \text{ resto } 1$$

$$\begin{array}{r} 5000 \text{ L } 16 \\ 20 \quad 312 \\ 10 \\ 8 \end{array}$$

d. 6199

$$6199 \div 16 = 387 \text{ resto de } 7$$

$$387 \div 16 = 24 \text{ resto de } 3$$

$$24 \div 16 = 1 \text{ resto de } 8$$

$$1 \div 16 = 0 \text{ resto de } 1$$

20

Q. 500

$$5 \cdot 8^2 + 0 \cdot 8^1 + 0 \cdot 8^0 = 320$$

b. 485

$$5 \cdot 8^2 + 8 \cdot 8^1 + 5 \cdot 8^0 = 261 + 64 + 5 = 330$$

c. 5445

$$5 \cdot 8^3 + 4 \cdot 8^2 + 4 \cdot 8^1 + 5 \cdot 8^0 = 2048 + 256 + 32 + 5 = 2341$$

d. 277

$$7 \cdot 8^2 + 7 \cdot 8^1 + 2 \cdot 8^0 = 448 + 56 + 2 = 506$$

3.

$$a. 75,202,53 + 0,009997$$

$$7,520253 \times 10^1 + 9,997 \times 10^{-3} = 7,520353 \times 10^1$$

$$b. 533,075 - 38,611,007$$

$$5,33075 \times 10^2 - 3,8611007 \times 10^4$$

$$= -3,8605675 \times 10^4$$

$$c. 0,38654 + 9,00012097$$

$$3,8654 \times 10^{-1} + 9,2097 \times 10^{-4}$$

$$= 4,67468238 \times 10^{-1}$$

d. $37,86093 / 0,000103862$

$$3786093 \times 10^1 / 1,03862 \times 10^{-4}$$
$$= 3,64547296 \times 10^5$$