

Nombre:

Día

Mes

Año

Folio

Tema: Tarea 2

29

08

2023

Tabla:

Binario	Hexa decimal	Binario	Octal
0000	0	000	0
0001	1	001	1
0010	2	010	2
0011	3	011	3
0100	4	100	4
0101	5	101	5
0110	6	110	6
0111	7	111	7
1000	8		
1001	9		
1010	A		
1011	B		
1100	C		
1101	D		
1110	E		
1111	F		

$$1. - 763_8 \rightarrow N_{10} N_{16} N_2$$

$$7 \times 64 = 448$$

$$6 \times 8 = 48$$

$$3 \times 1 = 3$$

$$448 + 48 + 3 = 499_{10}$$

$$\begin{array}{r} 341 \\ 2 \overline{) 763} \\ \underline{16} \\ 63 \\ \underline{1} \\ 1 \end{array} \quad \begin{array}{r} 190 \\ 2 \overline{) 341} \\ \underline{18} \\ 61 \\ \underline{1} \\ 1 \end{array} \quad \begin{array}{r} 45 \\ 2 \overline{) 190} \\ \underline{10} \\ 0 \end{array} \quad \begin{array}{r} 47 \\ 2 \overline{) 95} \\ \underline{16} \\ 1 \end{array} \quad \begin{array}{r} 23 \\ 2 \overline{) 47} \\ \underline{07} \\ 1 \end{array} \quad \begin{array}{r} 11 \\ 2 \overline{) 23} \\ \underline{03} \\ 1 \end{array} \quad \begin{array}{r} 5 \\ 2 \overline{) 11} \\ \underline{1} \\ 1 \end{array} \quad \begin{array}{r} 2 \\ 2 \overline{) 5} \\ \underline{1} \\ 1 \end{array} \rightarrow 111110011_2$$

$$N_{16} = 1F3_{16}$$

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$$2: 11000.11_2 \rightarrow N_{10}, N_{16}, N_8$$

$$N_{10} = (1 \times 16) + (1 \times 5) + (1 \times .25) = \underline{24.75}$$

$$N_{16} = \frac{0001}{1} \cdot \frac{1000}{8} \cdot \frac{1100}{C} = \underline{14.C}$$

$$N_8 = \frac{011}{3} \cdot \frac{000}{6} \cdot \frac{110}{6} = \underline{30.6}$$

$$3: 10011_2 \rightarrow N_{10}, N_{16}, N_8$$

$$N_{10} = (1 \cdot 16) + (1 \cdot 2) + (1 \cdot 1) = \underline{19}$$

$$N_{16} = \frac{0001}{1} \cdot \frac{0011}{3} = \underline{13}$$

$$N_8 = \frac{010}{2} \cdot \frac{011}{3} = \underline{23}$$

$$4: 892_{10} \rightarrow N_2, N_{16}, N_8$$

$$\begin{array}{r} 446 \\ 2 \overline{) 892} \\ \underline{09} \\ 120 \end{array}$$

$$\begin{array}{r} 223 \\ 2 \overline{) 446} \\ \underline{04} \\ 060 \end{array}$$

$$\begin{array}{r} 111 \\ 2 \overline{) 223} \\ \underline{02} \\ 031 \end{array}$$

$$\begin{array}{r} 55 \\ 2 \overline{) 111} \\ \underline{02} \\ 031 \end{array}$$

$$\begin{array}{r} 27 \\ 2 \overline{) 55} \\ \underline{15} \\ 1 \end{array}$$

$$\begin{array}{r} 13 \\ 2 \overline{) 27} \\ \underline{07} \\ 1 \end{array}$$

$$\begin{array}{r} 6 \\ 2 \overline{) 13} \\ \underline{1} \\ 1 \end{array}$$

$$\begin{array}{r} 3 \\ 2 \overline{) 6} \\ \underline{0} \\ 0 \end{array}$$

$$\begin{array}{r} 1 \\ 2 \overline{) 3} \\ \underline{1} \\ 1 \end{array}$$

$$\rightarrow \underline{1101111100}$$

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$$N_{16} = \frac{0011}{3} \frac{6111}{7} \frac{11100}{C} \rightarrow \underline{37C}$$

$$N_8 = \frac{0011}{1} \frac{101}{5} \frac{1111}{7} \frac{1001}{4} = \underline{1574}$$

$$5- 562.34_{10} \rightarrow N_2 N_{16} N_3$$

$$\begin{array}{r} 251 \\ 2 \overline{) 562} \\ \underline{16} \\ 02 \\ 0 \end{array} \quad \begin{array}{r} 140 \\ 2 \overline{) 251} \\ \underline{08} \\ 01 \\ 1 \end{array} \quad \begin{array}{r} 70 \\ 2 \overline{) 140} \\ \underline{0} \end{array} \quad \begin{array}{r} 35 \\ 2 \overline{) 70} \\ \underline{0} \end{array} \quad \begin{array}{r} 17 \\ 2 \overline{) 35} \\ \underline{15} \\ 1 \end{array} \quad \begin{array}{r} 8 \\ 2 \overline{) 17} \\ \underline{10} \\ 7 \end{array} \quad \begin{array}{r} 4 \\ 2 \overline{) 8} \\ \underline{0} \\ 0 \end{array} \quad \begin{array}{r} 2 \\ 2 \overline{) 4} \\ \underline{0} \\ 0 \end{array} \quad \begin{array}{r} 1 \\ 2 \overline{) 2} \\ \underline{0} \end{array}$$

$$\underline{1000110010.010101}$$

$$N_{16} = \frac{10}{2} \frac{0011}{3} \frac{0010}{2} \frac{6101}{5} \frac{011}{7} = \underline{232.57}$$

$$N_8 = \frac{1000}{6} \frac{110}{6} \frac{010}{2} \frac{010}{2} \frac{101}{5} \frac{1}{4}$$

$$6- AFG16 \rightarrow N_{10} N_2 N_3$$

$$N_{10} \rightarrow \underline{219355}$$

$$N_2 \rightarrow \underline{1010111101100010110}$$

$$N_4 \rightarrow \frac{10101111}{2} \frac{011}{5} \frac{000}{7} \frac{010}{3} \frac{110}{6} = \underline{253026}$$

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$$7 = 46.68 \text{ } 7_{10} \rightarrow N_2 N_{16} N_8$$

$$N_2 \rightarrow \begin{array}{r} 23 \\ 2 \overline{) 46} \\ \underline{66} \\ 0 \end{array} \quad \begin{array}{r} 11 \\ 2 \overline{) 23} \\ \underline{61} \end{array} \quad \begin{array}{r} 5 \\ 2 \overline{) 11} \\ \underline{1} \end{array} \quad \begin{array}{r} 2 \\ 2 \overline{) 5} \\ \underline{1} \end{array} \quad \begin{array}{r} 1 \\ 2 \overline{) 8} \\ \underline{6} \end{array} \quad \begin{array}{r} 6 \\ 2 \overline{) 1} \\ \underline{1} \end{array}$$

$$\underline{101116.101011}$$

$$N_{16} \rightarrow \begin{array}{r} 10111101 \\ 2 \overline{) } \\ \underline{} \\ E \end{array} \cdot \begin{array}{r} 1010 \\ A \end{array} \begin{array}{r} 1111 \\ E \end{array} = 2E.AE$$

$$N_8 \rightarrow \begin{array}{r} 10111101 \\ 5 \overline{) } \\ 6 \end{array} \cdot \begin{array}{r} 101011 \\ 5 \overline{) } \\ 3 \end{array} \begin{array}{r} 1001 \\ 4 \end{array}$$

$$7 = 10111_2 \rightarrow N_{10} N_{16} N_8$$

$$N_{10} = 16 + 4 + 2 + 1 = \underline{23}$$

$$N_{16} = \begin{array}{r} 10111 \\ 7 \end{array} \rightarrow \underline{17}$$

$$N_8 \rightarrow \begin{array}{r} 10111 \\ 2 \overline{) } \\ 7 \end{array} = \underline{27}$$