

1.1 28(10)

1.1.1 (binário)

$$\begin{array}{r} 28 \overline{) 12} \\ -21 \quad 14 \overline{) 2} \\ \hline 0 \quad -14 \quad 7 \overline{) 2} \\ \hline 0 \quad -6 \quad 3 \overline{) 2} \\ \hline 0 \quad -2 \quad 1 \overline{) 2} \\ \hline 0 \end{array}$$

$$11100_{(2)} = 28_{(10)}$$

1.1.2 (octal)

$$\begin{array}{r} 28 \overline{) 8} \\ -24 \quad 3 \\ \hline 4 \end{array}$$
$$34_{(8)} = 28_{(10)}$$

1.1.3 (hexadecimal)

$$\begin{array}{r} 28 \overline{) 16} \\ -16 \quad 0 \\ \hline 0 \end{array}$$
$$12 = C$$
$$1C_{(16)} = 28_{(10)}$$

1.2 (160)₁₀

1.2.1 (binário)

$$\begin{array}{r} 160 \overline{) 2} \\ -160 \quad 80 \overline{) 2} \\ \hline 0 \quad -80 \quad 40 \overline{) 2} \\ \hline 0 \quad -40 \quad 20 \overline{) 2} \\ \hline 0 \quad -20 \quad 10 \overline{) 2} \\ \hline 0 \quad -10 \quad 5 \overline{) 2} \\ \hline 0 \quad -4 \quad 2 \overline{) 2} \\ \hline 0 \quad -2 \quad 1 \overline{) 2} \\ \hline 0 \end{array}$$
$$10100000_{(2)} = 160_{(10)}$$

1.2.2 (octal)

$$\begin{array}{r} 160 \text{ } | \text{ } 8 \\ -160 \text{ } | \text{ } 20 \text{ } | \text{ } 8 \\ \hline 0 \text{ } | \text{ } 16 \text{ } | \text{ } 2 \\ \text{ } | \text{ } 4 \end{array}$$

$$240_{(8)} = 160_{(10)}$$

1.2.3 (hexadecimal)

$$\begin{array}{r} 160 \text{ } | \text{ } 16 \\ -160 \text{ } | \text{ } 10 \text{ } | \text{ } 16 \\ \hline 0 \text{ } | \text{ } 0 \end{array}$$

$$10 = A \quad A0_{(16)} = 160_{(10)}$$

1.3-131 (10)

1.3.1 (binário)

$$131 \text{ } | \text{ } 2$$

$$1000011_{(2)} = 131_{(10)}$$

$$\begin{array}{r} 130 \text{ } | \text{ } 64 \text{ } | \text{ } 2 \\ \hline 1 \text{ } | \text{ } 64 \text{ } | \text{ } 32 \text{ } | \text{ } 2 \\ \hline 1 \text{ } | \text{ } 32 \text{ } | \text{ } 16 \text{ } | \text{ } 2 \\ \hline 1 \text{ } | \text{ } 16 \text{ } | \text{ } 8 \text{ } | \text{ } 2 \\ \hline 1 \text{ } | \text{ } 8 \text{ } | \text{ } 4 \text{ } | \text{ } 2 \\ \hline 1 \text{ } | \text{ } 4 \text{ } | \text{ } 2 \text{ } | \text{ } 2 \\ \hline 1 \text{ } | \text{ } 2 \text{ } | \text{ } 1 \end{array}$$

1.3.2 (octal)

$$\begin{array}{r} 131 \text{ } | \text{ } 8 \\ -128 \text{ } | \text{ } 16 \text{ } | \text{ } 8 \\ \hline 003 \text{ } | \text{ } 16 \text{ } | \text{ } 2 \\ \text{ } | \text{ } 0 \end{array}$$

$$203_{(8)} = 131_{(10)}$$

1.3.3 (hexadecimal)

$$\begin{array}{r} 131 \text{ } | \text{ } 16 \\ -128 \text{ } | \text{ } 3 \\ \hline 003 \end{array}$$

$$83_{(16)} = 131_{(10)}$$

1.4 (FAJ)(16)

1.4.1 (decimal)

16^2	16^1	16^0
F	A	1

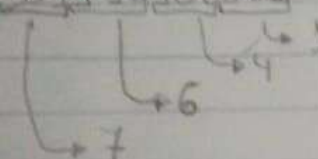
F = 15 $(15 \cdot 16) + (256 \cdot 15)$
A = 10 $1 + 160 + 3840$
 $FAJ_{(16)} = 4001_{(10)}$

1.4.2 (binário)

$F = 15 = 1111$ $11111010001_{(2)} = FAJ_{(16)}$
 $A = 10 = 1010$
 $1 = 0001$

1.4.3 (octal)

$11111010001_{(2)}$ $7641_{(8)} = FAJ_{(16)}$



1.5 (63)(8)

1.5.1 (decimal)

8^1	8^0
6	3

$(3 \cdot 3) + (8 \cdot 6)$
 $3 + 48$
 $51_{(10)} = 63_{(8)}$

1.5.2 (2)

$$-6 = 110$$

$$-3 = 011$$

$$110011(2) = 63(8)$$

1.5.3 (6)

$$\times \times 110011$$

$$33(16) = 63(8)$$

$$-0011 = 3$$

$$-0011 = 3$$