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1. $78_{10} = \ldots_{16}$

$$78 \,/\, 16 = 4 \quad | \quad 14\,(E)$$
$$4 \,/\, 16 = 0 \quad | \quad A$$

Hasil : $78_{10} = AE_{16}$

2. $1011000_2 = \ldots_8$

$$010\,|\,111\,|\,000$$
$$2 \quad 7 \quad 0$$

Hasil : $1011000_2 = 270_8$

3. $56_8 = \ldots_{10}$

$$6 \times 1 = 6$$
$$5 \times 8 = \underline{40} +$$
$$46$$

Hasil : 46_{10}

4. $7C_{16} = \ldots_2$

$$7 = 0111$$
$$C = 1100$$

Hasil : 1111100_2

5. a. $12_{10} + 20_{10}$

$\Rightarrow 12_{10} = 110_2$
$\Rightarrow 20_{10} = 10100_2$

$$\begin{array}{r} {}^{11} \\ 110 \\ 10100 \\ \hline 100000 \end{array} +$$

Hasil : $100000_2 = 32_{10}$

b. $9_{10} - 3_{10}$

$\Rightarrow 9_{10} = 1001_2$
$\Rightarrow 2_{10} = 11_2$

$$\begin{array}{r} +3 \quad 0011 \\ c_1 \quad 1100 \\ c_2 \quad 1101 \end{array} +$$

$$\begin{array}{r} +9 \quad 01001 \\ -3 \quad 11101 \\ \hline 00110 \end{array} +$$

Hasil : $0110_2 = 6_{10}$

c. $2_{10} \times 3_{10}$

$\Rightarrow 2_{10} = 10_2$
$\Rightarrow 3_{10} = 11_2$

$$\begin{array}{r} 2 \quad 10 \\ 3 \quad 11 \\ \hline 10 \\ 10 \\ \hline 110 \end{array} +$$

Hasil : $110_2 = 6_{10}$