

ARHITECTURA CALCULATORILOR

EXAMEN 2.06.2018

6307

REZOLVARE PB. ~~DE~~ 5

120	2	0
60	2	0
30	2	0
15	2	1
7	2	11
3	2	11
1		1

247	2	1
123	2	1
61	2	1
30	2	0
15	2	1
7	2	1
3	2	1
1		1

$$120|_{10} = 11111000$$

$$247|_{10} = 11110111$$

Adunare

$$\begin{array}{r} 1111 \\ 11110111 + \\ 1111000 \\ \hline 101101111 \end{array}$$

$$\rightarrow 15 + 16 \cdot 6 + 1 \cdot 256 = 367 \checkmark$$

$$\begin{array}{r} 256 \\ 96 \\ 15 \\ \hline 367 \end{array}$$

Inmultire

$$\begin{array}{r} 11110111 \cdot \\ 1111000 \\ \hline 00000000 \\ 00000000 \\ 00000000 \\ 11110111 \\ 11110111 \\ 11110111 \\ 11110111 \\ \hline 1110011110000 \end{array}$$

$$\rightarrow 8 + 12 \cdot 16 + 3 \cdot 256 + 7 \cdot 4096 = 29640$$

$$\begin{array}{r} 10111101010101 \\ \hline 192 \quad 768 \end{array}$$