

$$\cdot \overset{8}{1} \overset{7}{0} \overset{6}{1} \overset{5}{0} \overset{4}{1} \overset{3}{0} \overset{2}{1} \overset{1}{0} \overset{0}{1} \cdot 2^{-1}$$

$$2^9 + 2^7 + 2^5 + 2^3 + 2^1 = 512 + 128 + 32 + 8 + 2 = 682$$

$$2^{-1} = 0,5$$

$$(1010101010,1)_2 = (682,5)_{10}$$

5) Converta os seguintes números decimais em seus equivalentes binários: 64, 100, 111, 145 e 255.

$$(64)_{10} = (1000000)_2$$

$$64 \mid 2$$

$$0 \quad 32 \mid 2$$

$$0 \quad 16 \mid 2$$

$$0 \quad 8 \mid 2$$

$$0 \quad 4 \mid 2$$

$$0 \quad 2 \mid 2$$

$$0 \quad 1$$

$$100 \mid 2$$

$$0 \quad 50 \mid 2$$

$$0 \quad 25 \mid 2$$

$$1 \quad 12 \mid 2$$

$$0 \quad 6 \mid 2$$

$$0 \quad 3 \mid 2$$

$$1 \quad 1$$

$$2 \times 50 = 100$$

$$2 \times 30 = 60$$

$$2 \times 25 = 50$$

$$(100)_{10} = (1100100)_2$$