Introdução a Computação - Atividade 04

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1° Período

1. 1001 * 1011
2. 10110 * 00111
3. 011101 * 010010
4. 11011101 * 10110110
5. 12 * 10
6. 170 * 31
7. 170 * 128
8. 16 : 4
9. 30 : 6
10. 80 : 10
11. 100 : 5

Resolução

01) 1001 * 1011

			1	0	0	1
	x		1	0	1	1
	-	-	-	-	-	-
		1	1	0	0	1
	1	1	0	0	1	
	0	0	0	0		
1	0	0	1			
-	-	-	-	-	-	-
1	1	0	0	0	1	1

02) 10110 * 00111

			1	0	1	1	0
		x	0	0	1	1	1
		-	-	-	-	-	-
			1	1			
		1	1	0	1	1	0
	1	1	0	1	1	0	
	1	0	1	1	0		
	-	-	-	-	-	-	-
1	0	0	1	1	0	1	0

03) 011101 * 010010

				0	1	1	1	0	1
			x	0	1	0	0	1	0
			-	-	-	-	-	-	-
				1					
			1	0	0	0	0	0	0
		1	0	1	1	1	0	1	
	1	0	0	0	0	0	0		
1	0	0	0	0	0	0			
0	1	1	1	0	1				
		-	-	-	-	-	-	-	-
1	0	0	0	0	0	1	0	1	0

04) 11011101 * 10110110

									1	1	0	1	1	1	0	1
								x	1	0	1	1	0	1	1	0
									-	-	-	-	-	-	-	-
							1	1	1							
						1	1	1	1	1						
					1	1	1	0	0	0	0	0	0	0	0	
					1	1	1	1	0	1	1	1	0	1		
				1	1	1	1	0	1	1	1	0	1			
			1	1	0	0	0	0	0	0	0	0				
			1	1	1	0	1	1	1	0	1					
		1	1	1	0	1	1	1	0	1						
	1	0	0	0	0	0	0	0	0							
	1	1	0	1	1	1	0	1								
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1	0	0	1	1	1	0	1	0	0	0	1	1	1	1	0

Usando a tabela para converter todos os números decimais em binário

128	64	32	16	8	4	2	1	-
0	0	0	0	1	1	0	0	12
0	0	0	0	1	0	1	0	10
1	0	1	0	1	0	1	0	170
0	0	0	1	1	1	1	1	31
1	0	0	0	0	0	0	0	128

05) 12 * 10 (1100 * 1010)

			1	1	0	0
		x	1	0	1	0
		-	-	-	-	-
			0	0	0	0
		1	1	0	0	
	0	0	0	0		
1	1	0	0			
	-	-	-	-	-	-
1	1	1	1	0	0	0

06) 170 * 31 (10101010 * 11111)

					1	0	1	0	1	0	1	0
				x				1	1	1	1	1
					-	-	-	-	-	-	-	-
					1	1						
				1	1	1	1	1				
			1	1	1	0	1	0	1	0	1	0
		1	1	1	0	1	0	1	0	1	0	
		1	1	0	1	0	1	0	1	0		
	1	1	0	1	0	1	0	1	0			
	1	0	1	0	1	0	1	0				
-	-	-	-	-	-	-	-	-	-	-	-	-
1	0	1	0	0	1	0	0	1	0	1	1	0

07) 170 * 128 (10101010 * 10000000)

						1	0	1	0	1	0	1	0
					x	1	0	0	0	0	0	0	0
						-	-	-	-	-	-	-	-
						0	0	0	0	0	0	0	0
					0	0	0	0	0	0	0	0	
				0	0	0	0	0	0	0	0		
			0	0	0	0	0	0	0	0			
		0	0	0	0	0	0	0	0				
	0	0	0	0	0	0	0	0					
1	0	1	0	1	0	1	0						
-	-	-	-	-	-	-	-	-	-	-	-	-	-

1	0	1	0	1	0	1	0	0	0	0	0	0	0	0

Usando a tabela para converter todos os números decimais em binário

128	64	32	16	8	4	2	1	-
0	0	0	1	0	0	0	0	16
0	0	0	0	0	1	0	0	4
0	0	0	1	1	1	1	0	30
0	0	0	0	0	1	1	0	6
0	1	0	1	0	0	0	0	80
0	0	0	0	1	0	1	0	10
0	1	1	0	0	1	0	0	100
0	0	0	0	0	1	0	1	5

08) 16 : 4 (10000 : 100)

1	0	0	0	0	0	:	1	0	0	
1	0	0					-	-	-	
-	-	-					1	0	0	0
0	0	0	0	0	0					

09) 30 : 6 (11110 : 110)

1	1	1	1	0	:	1	1	0
1	1	0				-	-	-
-	-	-				1	0	1
0	0	1	1	0				
		1	1	0				
		-	-	-				
		0	0	0				

10) 80 : 10 (1010000 : 1010)

1	0	1	0	0	0	0	:	1	0	1	0
1	0	1	0					-	-	-	-
-	-	-	-					1	0	0	0
0	0	0	0	0	0	0					

11) 100 : 5 (1100100 : 101)

1	1	0	0	1	0	0	:	1	0	1		
1	0	1						-	-	-		
-	-	-						1	0	1	0	0
0	0	1	0	1								
		1	0	1								
		-	-	-								
		0	0	0	0	0						