Title: Choose Your Battles... 2

Description: The key to surviving a fight is location, location, location. Our most talented general began planning where to send troops of different sizes, but, on account of being assassinated, her work was left unfinished.

You must finish her work by dividing the 20x20 grid into rectangular sections such that each section contains exactly one number, and that number represents the area of the rectangle.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	2				2		2							2		2			8
	4		5		4							4	3						
								4						4	4				
5							4					4		4	4	4			
	4			4			4	8	4				4					2	
2																		4	
4					4	8				8						4			
					2						8	6							
	2					2				12									
		8				4									12				
	4	8											4				4	4	
						2						8						2	
4					4		2												
2															2			4	
	4		2	16		4			4	4	4	2		4	4		4		
		6	4			4					4								
2				4			4			6	4							4	
					2	8		3						4					
4							2		4			4	4				4		
		4		4	4		3				3								

The general also wrote the following next to the grid:
"rx = the number of rectangles that intersect row x"

r1 + 0110110 = _____

r2 + 1100110 = _____
r3 + 1011111 = _____
r4 + 1100100 = _____
r5 + 0111011 = _____
r6 + 1010010 = _____
r7 + 1011101 = _____
r8 + 1011111 = _____
r9 + 1100001 = _____
r10 + 0111001 = _____
r11 + 1010011 = _____
r12 + 1010001 = _____
r13 + 1010100 = _____
r14 + 1100010 = _____
r15 + 1011011 = _____
r16 + 1100111 = _____
r17 + 1011111 = _____
r18 + 1101011 = _____
r19 + 1011010 = _____
r20 + 1011010 = _____