FAT

1)a) 250\*1024\*1024 = 262 144 000 blocks

b) 262 144 000 entries

c) log2(262 144 000) = 27,97 = 28 bit 1 entry -> max 2 adresses and 1 adress -> 3,5 bytes = 7bytes

d) 262 144 000 \* 7 = 1 835 008 000 = 1 792 000 GB

2)a) Overjump 107 834 590 bytes

3) 32 -> 4 byte 1024\*1024\*4 = 4 194 304 KB = 4 GB  
1024 -> 4KB 256\*256\*1 = 65 536 KB  
256 ->1KB

4) 512 B -> 128 addresses  
 1024 B -> 256 addresses

128\*128\*128\*512 = 1 073 741 824 B = 1 048 576 KB 1 GB  
256\*256\*256\*1024 = 1 717 986 918 B = 16 777 216 KB = 16 GB

Nothing would change.