QUANTITY OF INFORMATION

1. How many bytes can be stored on a CD of 700 MB?
2. How many kB can be stored on a CD of 800 MB?
3. A book has on average 2500 characters per page. We know that a character is stored in a byte. How many book pages fit on a floppy disk 1440 kB? But on a 700 MB CD? But on a 4 GB DVD?
4. If a book of 220 pages is on average 2000 characters per page and a character is stored in a byte, what size should be the device needed to store 350 books?
5. How many characters per page has a book of 500 pages stored on a file of 1MiB (we know that one character is stored on 8 bytes)?
6. How many books of 512 pages (2560 characters per page, a character is stored in a byte) can be stored on a CD of 700 MB? But on 4 GB DVD?
7. How many medical images with the average size of 150 kiB can be stored on a CD of 700 MiB? But on an 800 MB CD? But on a 4 GB DVD?
8. Find the solution for the following operations:
    a. 120 kb + 120 kb = ... byte
    b. 200 kB + 1024 B = ... kB
    c. 100 Mb + 1000 KB + 1 GB = ... KB
    d. 120 Kb + 120 Kb = ... B
    e. 128 B + 1020 B = ... kb