## 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 1 MiB (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. $120 \mathrm{~kb}+120 \mathrm{~kb}=$ $\qquad$ byte
b. $200 \mathrm{kB}+1024 \mathrm{~B}=$ $\qquad$ kB
c. $100 \mathrm{Mb}+1000 \mathrm{~KB}+1 \mathrm{~GB}=$ $\qquad$ KB
d. $120 \mathrm{~Kb}+120 \mathrm{~Kb}=$ $\qquad$ B
e. $128 \mathrm{~B}+1020 \mathrm{~B}=$ kb
