

General Introduction

Exercise 1:

1. Provide a diagram illustrating the internal structure of a computer.
2. How is information presented in memory?
3. What is the basic unit of measurement for information?
4. What is the difference between RAM and ROM?
5. What is the difference between RAM and auxiliary memory?
6. How long does it take to download a 1 MB file using a 1 Mb/s ADSL connection?
7. Classify the following devices according to their type (input, output and input/output):
Keyboard, floppy disk, screen, DVD engraver, DVD player, scanner, hard disk, mouse, printer, modem, flash disk, digital screen, microphone, speaker.

Exercise 2:

Specify the units of measurement in the following data sheet:

- Intel Core™i5 (frequency 3.40, cache memory 4
- Windows 8.1 64
- RAM 4 with frequency of 1333
- Hard disk 850, transfer rate 4
- Integrated network card (LAN) : 100
- ADSL connection 2
- WebCam: resolution 12

Exercise 3:

Convert the following units:

- 2,4 GHz = MHz = Hz.
- 4,7 GB = MB = KB = Bytes.
- 512 kb/s = kB/s = Bytes/s.
- 2 TB = GB = MB.
- 1Mb/s = kB/s = bytes/s.

Exercise 4:

Yanis owns a flash disk with a storage capacity of 8 GB. He has saved three files on his flash disk with sizes of 1.87 GB, 4096 MB, and 300 MB, respectively. Yanis then lent his flash disk to Anya, requesting her to copy a 2 GB film onto it.

Is it possible for Anya to copy the film to the flash disk?

Why or why not?