4. Fruits

During the solution take the following into consideration.

- *Whenever possible, use a formula, function or reference in the solution.*
- *There are parts in the exercise that use the results from a previous question. If you can not solve the previous part completely, use its solution as it is, or instead of a formula resulting in a number use "**50 000**" or "**5%**", or instead of a text use the words "**I don't know**" and work on with these values. This way you can receive marks for these exercise parts as well.*

File `gyumolcs.txt` contains the quantity of principal fruits grown in Hungary in the year 2003 by counties.

Using the worksheet processing program solve the following exercises.

1. Load the file into the worksheet processor and save it as `statgyumolcs`.
2. The quantity of fruits is given in tons. Set a number format with thousands separation and "**t**" after the numbers for these values.
3. Insert a column between the first and second columns. Type the text "**Total fruit growth**" in the first row of the column.
4. Calculate – using a function – the quantity of fruits grown in the county in the created column.
5. After the counties leave one row blank and in the following row calculate – using a function – the total quantity of different fruits grown in the country.
6. Sort the counties into descending order according to total fruit growth.
7. Insert a column before the column "**Apple**". Type the text "**Percentage**" in the first row of the column.

Counties	*Total fruit growth*	*Percentage*	*Apple*	*Pear*	*Cherry*
Szabolcs-Szatmár-Bereg	***316 680 t***	***46,37%***	286 000 t	1 100 t	34
Bács-Kiskun	***70 598 t***	***10,34%***	50 174 t	1 970 t	33
Borsod-Abaúj-Zemplén	***49 057 t***	***7,18%***	28 105 t	2 510 t	31
Pest	***48 132 t***	***7,05%***	25 066 t	659 t	1 02
Zala	***37 677 t***	***5,52%***	31 479 t	5 500 t	12
Hajdú-Bihar	***32 600 t***	***4,77%***	25 400 t	750 t	18
Fejér	***18 633 t***	***2,73%***	4 932 t	706 t	85
Somogy	***17 739 t***	***2,60%***	9 438 t	853 t	4
Heves	***14 585 t***	***2,14%***	6 290 t	479 t	
Győr-Moson-Sopron	***12 679 t***	***1,86%***	7 024 t	1 077 t	
Veszprém	***10 943 t***	***1,60%***	6 060 t	310 t	
Vas	***9 950 t***	***1,46%***	8 700 t	50	
Csongrád	***9 760 t***	***1.43%***	4 516 t		

8. In the inserted column – using a function – calculate what percent of the fruits grown in the country was grown in the different counties. Give the calculated values in percent format to two decimal digits.
9. Format the table as shown in the example (alignment, borders, font style).
10. Create an auxiliary table with 3 rows and 7 columns starting from row 25 of column D. The first row of the auxiliary table should contain the names of the fruits using reference.
11. Determine – using a function – the maximum quantity of the different fruits grown in the second row of the auxiliary table.
12. Determine – using a function – the county in which the maximum quantity of the different fruits was grown in the third row of the auxiliary table. Place the names of the counties below the quantities.
13. Create a suitable chart that shows the percentage of the different fruits grown in the individual counties. The title of the chart should be "**The quantity of principal fruits grown in the year 2003 according to counties**". Create a legend for the chart.

30 marks