

4. Culture

The leaders of a town announced the month of culture. In this period students could attend theatre and cinema performances at a discount price. The students of two classes of the school were asked to record the number of theatre and cinema attendances and keep accurate records of their book- and newspaper-readings.

These data are included in file *kultforr.txt* that is tagged by tabs.

1. Import the data into your worksheet processor. Save your work in the default format of the worksheet processor as *kultura*.

During the solution take the followings into consideration.

- *Whenever possible, use a formula, function in the solution.*
 - *There are parts in the exercise that use the results from a previous question. If you could not solve the previous part completely, use its solution as it is, or instead of a formula resulting in a number enter “100” and work on with this value. This way you can receive marks for these exercise parts as well.*
 - *If required, you can perform auxiliary calculations starting from column H of the worksheet.*
2. In cells *B46* and *B48*, calculate how many theatre tickets and cinema tickets the students of the two classes bought together.
 3. The column with heading “Newspaper” gives those students who read newspaper regularly this month. In cell *B50*, determine the number of students who read newspaper regularly using a function.
 4. Throughout the month, the students kept records of the number of pages read from literature books. These data can be found in column *F*. In cell *B52*, determine the average number of pages. Round the result to one decimal figure using a function.
 5. In cell *B54*, calculate the average number of pages read by those who also read newspapers. Round this value to one decimal figure using a function as well.
 6. In cell *B56*, determine who read the most from the two classes using a function.
 7. In range *B61:C62*, determine the number of theatre and cinema tickets the two classes required separately.
 8. Create a chart that shows the data of the previous question using 3-dimensional columns on a separate sheet. The chart should not have a legend but the inscriptions required to understand it should appear next to the axes.
 9. The school rewards the most active students with book vouchers based on the following scoring:

theatre:	10 points / occasion
cinema:	5 points / occasion
book:	1 point / 10 pages

Students who reach at least 120 points are rewarded with book vouchers. In column *G*, display who receives book vouchers using a function, according to the example. (The data appearing in the table can not change, therefore you can use these values directly in the function applied.)

10. Format the table according to the example.

11. On another worksheet, collect the names of the students from class “A” who read newspaper regularly. The list of results should include only the names and the number of pages read.

12. Arrange the collected data into decreasing order according to the number of pages read.

30 marks

Example to exercise Culture:

	A	B	C	D	E	F	G
	<i>Name</i>	<i>Class</i>	<i>Theatre</i>	<i>Cinema</i>	<i>Newspaper</i>	<i>Number of book pages</i>	<i>Reward</i>
1							
2	<i>Albert Gyula</i>	B	3	2	No	102	
3	<i>Bacsó Gabriella</i>	A	2	2	No	140	
4	<i>Bán Béla</i>	B	4	1	Yes	1489	book voucher
5	<i>Birkás Lajos</i>	A	2	0	No	725	
6	<i>Csángó Pál</i>	A	1	0	Yes	2023	book voucher
7	<i>Csontos Károly</i>	A	1	1	No	211	
8	<i>Dénes László</i>	A	3	1	Yes	706	
9	<i>Dobó Ernő</i>	A	0	5	Yes	1025	book voucher
10	<i>Érsek Márta</i>	B	2	1	Yes	1188	book voucher
11	<i>Farádi Anikó</i>	A	2	0	No	152	
12	<i>Gál Ádám</i>	A	2	5	No	569	
13	<i>Hegedűs Zoltán</i>	B	0	5	No	787	