Excel calculations

Do each exercise under a separate Sheet in excel and give the names Task 1, Task 2, … etc. to the sheets.
All information must therefore be found in the same excel file.
Where there are x-letters in the exercises, you should enter formulas. Enter your name in the header of the fourth tab.
Submit your solutions in ItsLearning

Task 1

- Enter the text and numbers in excel
- Create the formula for multiplikation to calculate the inventory value on row 6: activate cell D6, write =, Click on cell B6, write the multiplicator *, click on C6 and then Enter
- Copy the formula to the rows with the other chewing (bottom right corner => pull downwards)
- Calculate the sum on the row for the Sum (use Autosum)
- Make corresponding calculations for the chocolate
- Calculate the total sum in cell D23: =D12+D21
- Sort the chocolate in alphabetical order
- Sort the chewing gums so that those with the lowest unit price are at the top
- Create the lines and the color of the heading and the Sum-row
- Center the headings of the columns
- Make adjustments so that the cells C6-D23 has 2 decimals

Candystore Mums-Bums AB Investment calculation			
	Count	Unit price (€)	Inventory value (€)
CHEWING GUM			
Hubba-Bubba	21	6,55	xxx,xx
Jenkki, blue	18	5	xxx,xx
Jenkki, green	9	5	xxx,xx
Jenkki, yellow	13	5	xxx,xx
Sorbits	15	2,73	xxx,xx
Orbit	20	3	xxx,xx
Sum			**xxx,xx**
CHOCOLATE			
Royal, red	28	3,5	xxx,xx
Royal, green	18	3,5	xxx,xx
Tupla, mini	9	2,41	xxx,xx
Tupla, maxi	12	4	xxx,xx
Mars	15	3,15	xxx,xx
Kismet	20	2,9	xxx,xx
Sum			**xxx,xx**
SUM			**xxx,xx**

Task 2

Housing company Gold Budget

		Population	145
		Living space	3 000
		Water/person	4

Company rent	xxx
Water charges	xxx

Income sum   xxx

C12

COSTS

Land rent	20 400	xx,x %
Salaries	12 600	xx,x %
Street charges	3 360	xx,x %
Heating	25 500	xx,x %
Electricity	1 350	xx,x %
Water and waste	3 530	xx,x %
Reparations etc	1 500	xx,x %

Costs sum   xxx

Monthly rent/m^2 x,xx €

* Enter the headings and the numbers in excel
* Calculate the Cost sum
* Enter formulas to calculate the other missing numbers (xx,x)
    – Water charges = 12 * population * Water/person
    – Company rent = Cost sum – Water charges
    – Income sum = Company rent + Water charges
    – Monthly rent/m^2 = Company rent / Living space / 12

    – After each cost item, the percentage of cost is calculated:
        – Go to cell C12
        – write =
        – go to cell B12
        – write a division sign
        – then go to cell B20 and press F4 (Cmd-T on Mac) (**absolut reference!**) The formula in C12 should look like this: =B12/B20
        – Convert to percentage.
        – Copy the formula downwards
        – **What happens if you don't use the F4 before you copy down**???
* Change the number of decimals according to the model
* Enter two blank rows on top of the sheet
* Write on the first row:
    PROPERTY CARE AB

Task 3

Create a family budget for a quarter (JAN, FEB, MAR, and SUM)

Use at least 5 income items and at least 10 cost items

The costs can for example be		
	-	rent
	-	food
	-	travelling
	-	hobbies
	-	
	-	(make up your own)

The incomes can for example be		
	-	salary
	-	
	-	
	-	(make up your own)

The surplus is calculated as the difference between income and expenditure (in euros and as a percentage of income) for each month and for the quarter. Sort expenses and income separately according to the quarterly sum from largest to smallest.

Task 4

Write the table

	Item A	Item B	item C	Item D	Item E
Gross price	11200	1000	2300	850	320
Discount%	3%	4%	5%	3%	5%
Discount					
Net price					
Total discount:					

- Calculate the discount with formula, copy the formula to the right
- Calculate the net price with a formula and copy
- Calculate the total discount
- Center all data in the cells
- Format the table, so that it looks nice, use colors, borders etc

Task 5

The salary for the representants for Silomex AB, is calculated as: a fixed income of 2100 € + a 3,5 % provision of their sales per month.

Empoyees and their sales in mars 2020:

Salminen	Matti	4000 €
Mikkola	Simo	12100 €
Keihänen	Maija	10500 €
Aaltonen	Teuvo	9350 €
Makkonen	Kylli	9750 €
Siltanen	Esko	8500 €
Lehto	Kai	10500 €
Pirhonen	Kalle	11400 €
Leino	Liisa	7600 €

Make a report that shows for every employer: sales, the fixed salary, the provision and the total salary per month. The provisionpercent (3,5%) has to be written in a cell outside the table, so you have to use absolute reference (F4). Calculate also the average salary, the lowest salary and the higest salary per month (use the functions AVERAGE, MIN and MAX).

Those employers that has a salary below the average, gets a special remark (use IF). Sort the empoyees in alfabethic order. Design he table so that it looks nice.

Task 6

Enter the following table

1 EUR is	1,36	USD			
Item	Price/pc $	Price/pc €	Count	Value	Value of sum in %
SSS	6,7		3		
TTT	8,5		5		
UUU	4,9		6		
VVV	10,7		4		
XXX	8,55		1		
YYY	9,73		9		
ZZZ	3,9		8		
			Sum		
highest					
lowest					
average					

- Format Price / pc in $ so that the numbers have two decimal places and the $ sign is written before the numbers
- Calculate price/pc in € with formula and copy down (Price in € = price in $ / dollar exchange rate). Format so that the €-sign is written after the numbers.
- Calculate the value with formula for each item when you know the unit price and the count. Copy down.
- Add the values at sum (total value).
- Calculate the value in% of the total sum.

- Pick out with function the smallest and the highes price in $, and calculate with function the average value of the price.
- Create the corresponding graphs that you see below.
- **Is the latter graph misleading in any way?**
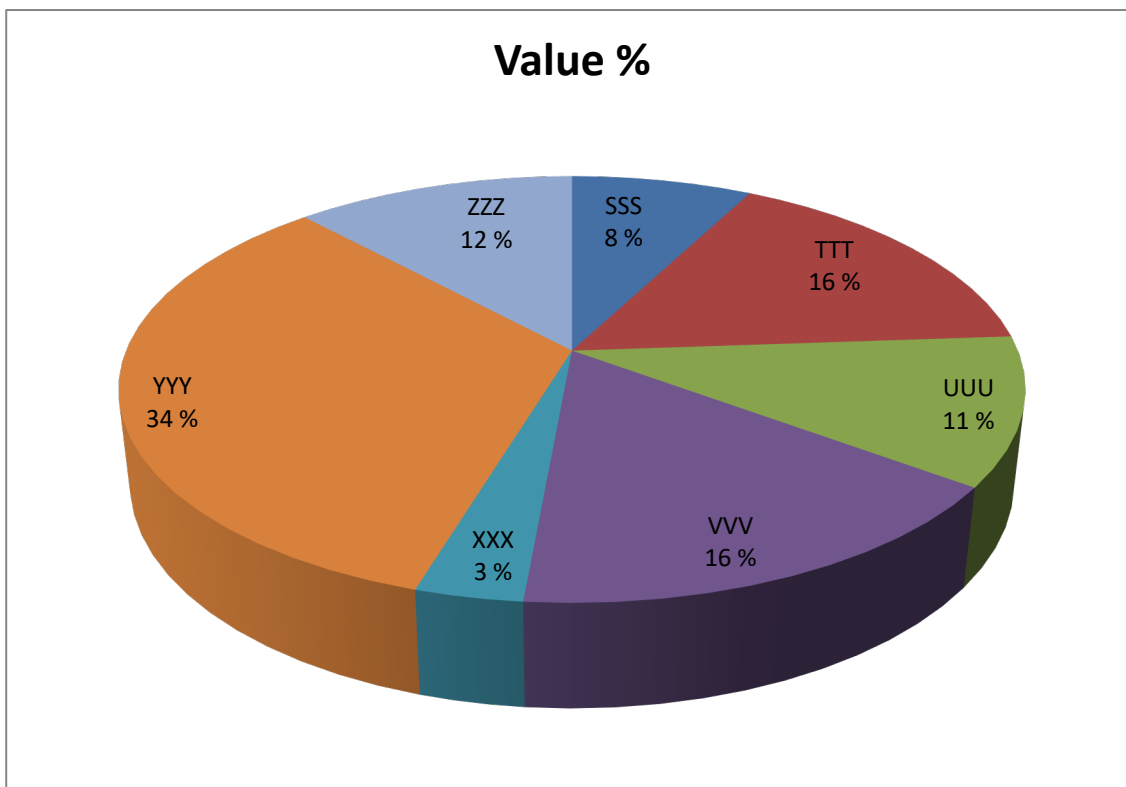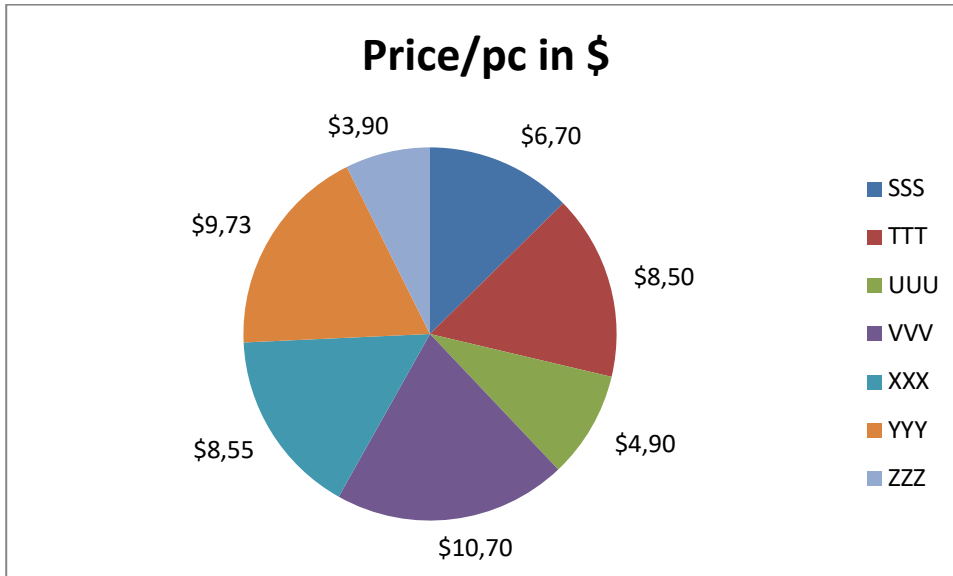
Task 7

Open the file Charles.xlsx

- Copy Prov 1 to the right so that it will increase the numbers Prov 2 .... Prov 6. Rotate the text 90°.
- Make the cells narrower. Draw a line under the headings.
- Calculate the average for each exam. Calculate the sum and average for each student in the exams. Format to 2 decimal places.

Name	Prov 1	Prov 2	Prov 3	Prov 4	Prov 5	Prov 6	Sum	Average
Kalle	12	15	15	12	20	18	92	15,33
Pelle	8	9	6	11	12	9	55	9,17
Lisa	20	18	15	14	11	11	89	14,83
Stina	12	13	14	13	12	14	78	13,00
Rut	4	5	6	3	0	0	18	3,00
Lars	18	17	9	19	20	19	102	17,00
Average	12,33	12,83	10,83	12,00	12,50	11,83		

- Create a graph that shows the development of each student as a line chart.
- Give the diagram the heading "IT exam" and the y-axis the name Points. See the models below.
- Create a bar chart with all the test scores on top of each other for each student.
- Create a pie chart that shows the average for each student in the tests. Write as a heading "Exam averages". Set the score. Draw an arrow pointing to the smallest sector and write NOTE! next to the arrow.

IT exam

Exam averages
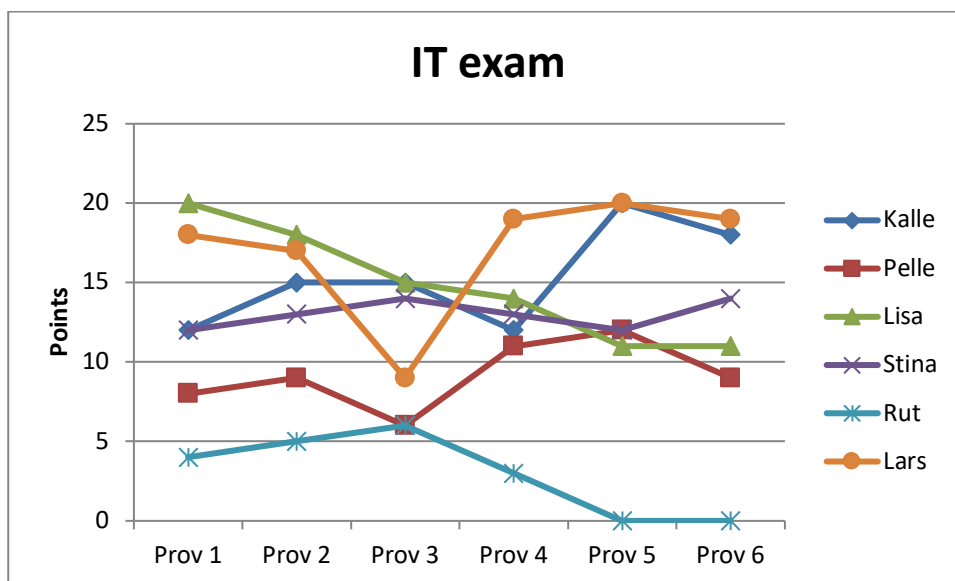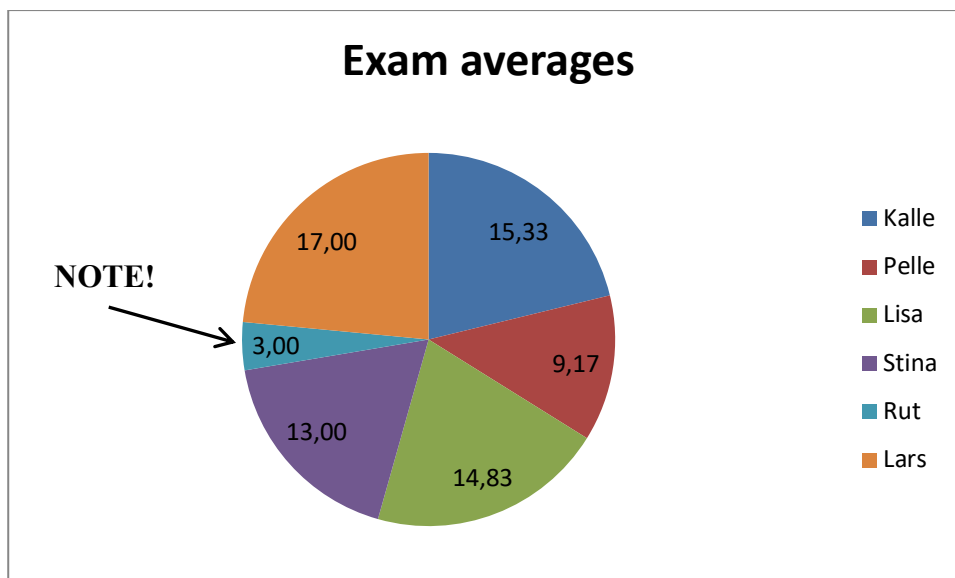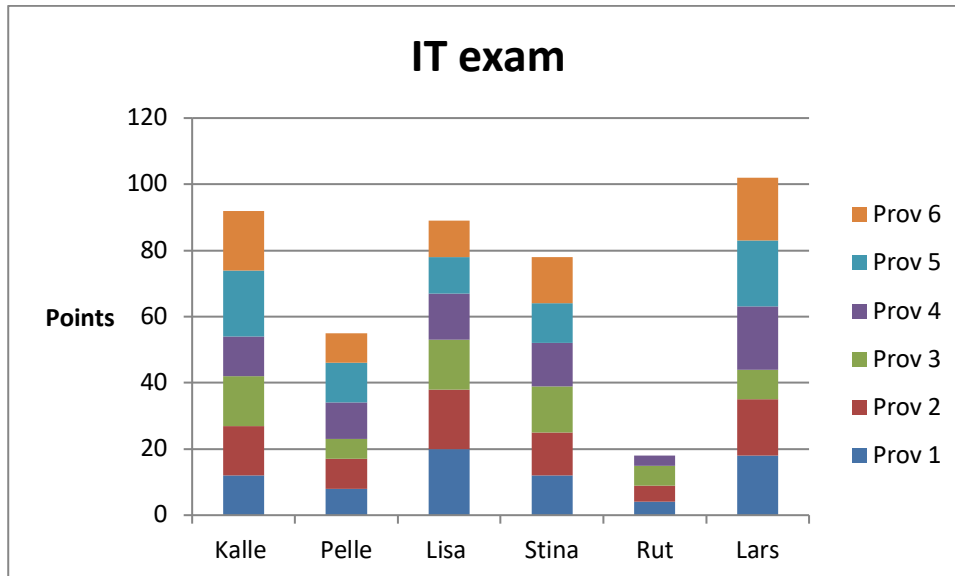
Task 8

Create Graphs on the statistics below. Choose proper graphs for each table Use short and cathy headingsGe korta och träffande rubriker. Place the grafhs so that the sheet is printable. (check with preview)

No.	Full Name	Position	Salary	Type
1	Bill Gates	Founder Microsoft	$1000	
2	Steve Jobs	Founder Apple	$1200	Company Founder
3	Larry Page	Founder Google	$1100	
4	Mark Zuckeberg	Founder Facebook	$1300	
Total Expense:			$4600	

TABLE_PRODUCT

Product ID	Color	Price
1	red, green	15.99
2	yellow	23.99
3	green	17.50
4	yellow, blue	9.99
5	red	29.99

Year	Q1	Q2	Q3	Q4	Quarterly Average
2000	138.1	140.2	137.8	142.1	139.6
2001	144.5	143.2	148.9	139.9	144.1
2002	136.5	138.2	135.5	137.4	136.9
2003	150.4	150.9	149.3	152.3	150.7
2004	180.1	183.2	181.1	185.2	182.4
2005	135.1	150.2	132.8	133.8	138.1

CustomerId	Year	Total
1	2010	13.88
1	2011	0.99
1	2012	15.84
1	2013	8.91
2	2009	24.75
2	2011	11.88
2	2012	0.99
3	2010	26.75
3	2012	5.94
3	2013	6.93
4	2009	10.89
4	2011	17.84
4	2012	8.91
4	2013	1.98

Task 9

Search the exchange rates on Internet and enter the into the LOOKUP-table. Use the VLOOKUP function to pick the exchange rate values into the larger table.

Loan nr	Initial. amount	Currency	Exchange rate	Amount €
10	10 000,00	USD	x,xxxx	xxxxxx,xx
20	23 000,00	BRL	x,xxxx	xxxxxx,xx
30	455 000,00	SEK	x,xxxx	xxxxxx,xx
40	23 000,00	USD	x,xxxx	xxxxxx,xx
50	48 000,00	GBP	x,xxxx	xxxxxx,xx
60	43 000,00	USD	x,xxxx	xxxxxx,xx
70	500 000,00	GBP	x,xxxx	xxxxxx,xx
80	342 000,00	SEK	x,xxxx	xxxxxx,xx
90	30 000,00	BRL	x,xxxx	xxxxxx,xx
100	23 400,00	JPY	x,xxxx	xxxxxx,xx
110	300 000,00	JPY	x,xxxx	xxxxxx,xx

LOOKUP-TABLE	
GBP	x,xxxx
JPY	x,xxxx
BRL	x,xxxx
SEK	x,xxxx
USD	x,xxxx