

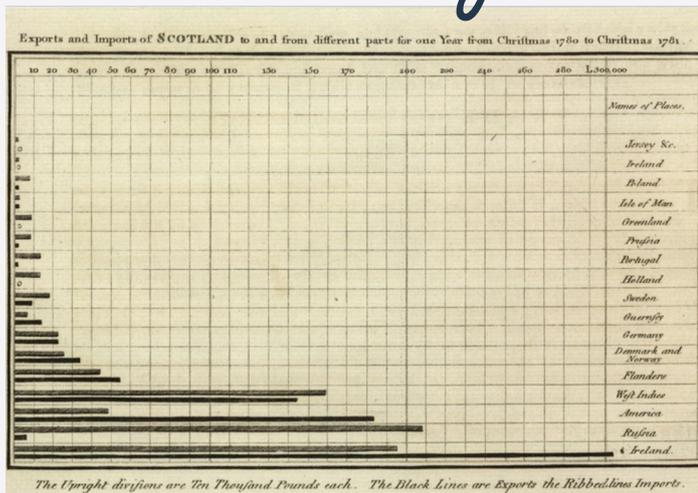
# William Playfair



Bar chart.

Exports and Imports of Scotland to and from different parts for one Year from Christmas 1780 to Christmas 1781.

Wikipedia / Public Domain.



Work in pairs and find information about William Playfair about the first one who used charts in order to represent data.

**William Playfair**  
William Playfair, a Scottish engineer and political economist, served as a secret agent on behalf of Great Britain during its war with France. The founder...



Try to answer to the following questions  
Who was William Playfair ?  
What was his occupation ?  
What was his relation with statistics ?  
Which Graphs did he invent and for what purpose ?

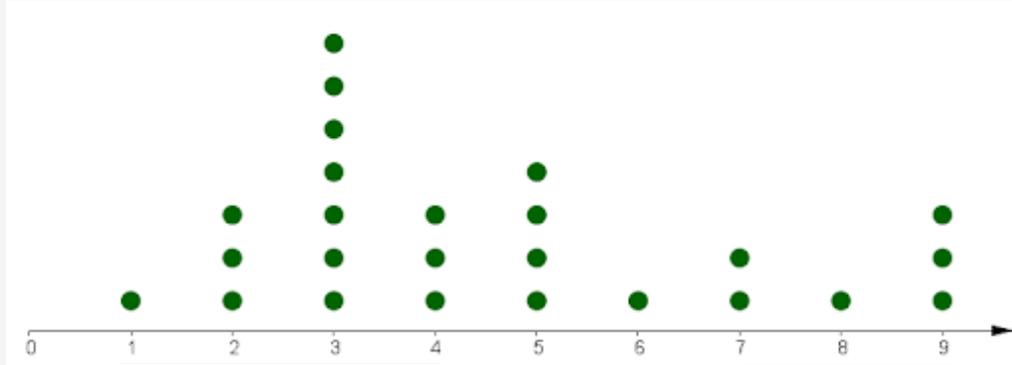


# Homework



## Task

1. On the next dot plot you can see the hours in a week that the students of a classroom are spending in doing their homework. Try to answer to the following questions:



## Questions

1. How many are the students of the classroom?
2. How many hours maximum the students spend on their homework?
3. How many students spend more than 6 hours for their homework?
4. What is the mode of the hours of reading in a week?
5. What is the average number of hours in a week that students spend on reading?



## Task

2. On the next table you can see the scores in a maths test.

18	42	39	41	17	9
22	29	31	27	30	11
16	28	40	27	35	36
45	38	37	30	28	21

## Questions

- A. Make a dot plot and a leaf plot.
- B. Which one is better for presenting the data?

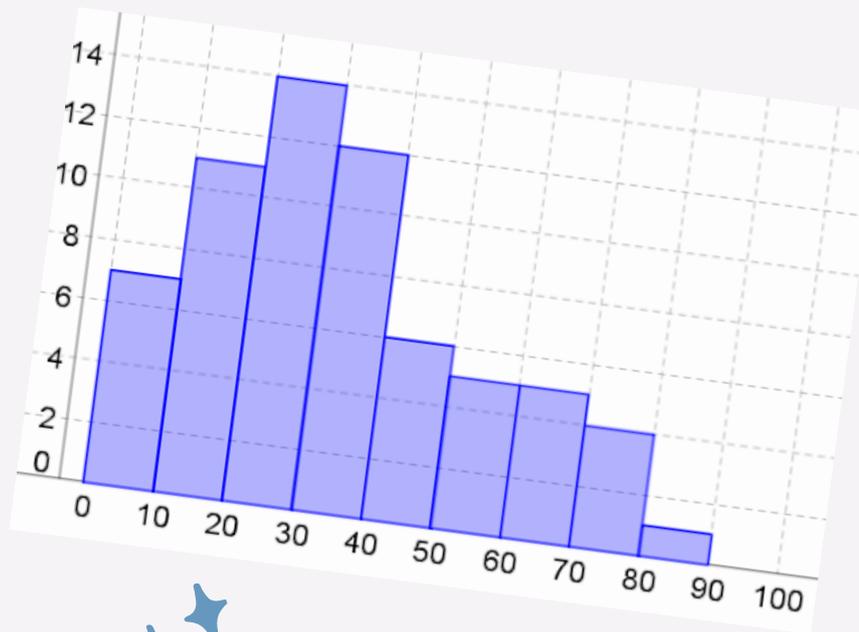


# Homework



## Task

3. The Histogram that follows presents the number of people by age who replied to a phone research and whose favourite cake is chocolate cake.



## Questions

1. How many were the people who participated in the research?
2. How many people of 30 and 40 years old answered that chocolate cake is their favourite cake?
3. How many people above 50 years old prefer chocolate cake among other cakes?
4. Which is the age group with the highest frequency? Frequency of a group is the number of people of that age that prefer chocolate cake.
5. What is the range of every age group? Note that when we were constructing the histogram we referred to the range of the group as "Bucket"
6. What are the ages of the people who prefer chocolate cake the most?

