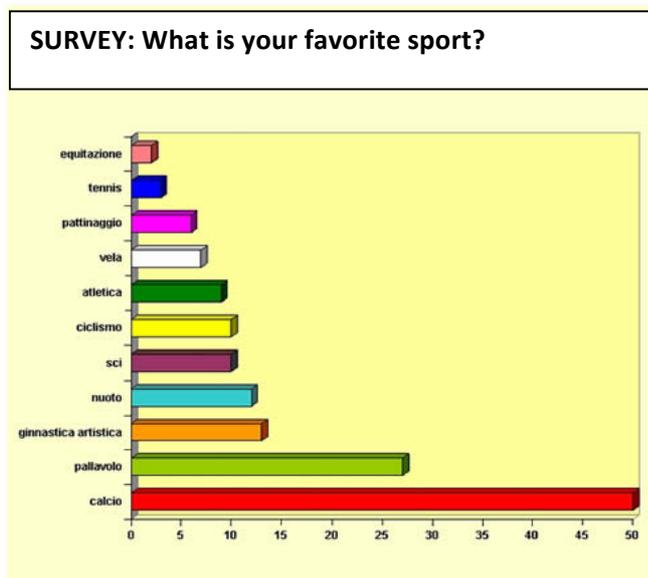


Statistics/1

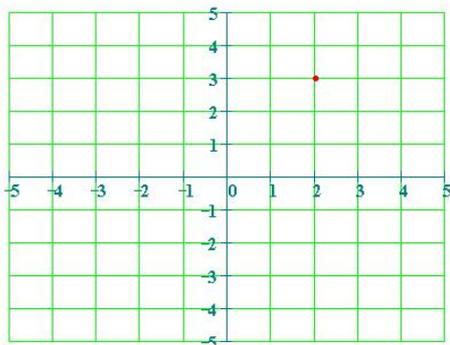
This is a **bar chart**.



1. A bar chart show frequency or quantity using rectangles wich are the same width, but different heights.

From site: www.icsbellano.org

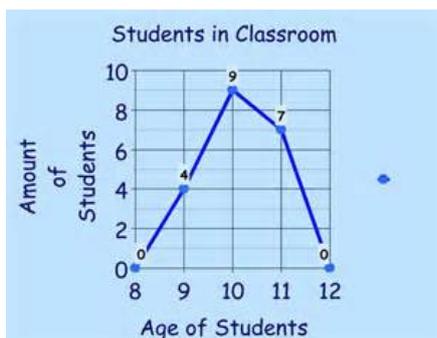
This is a **Cartesian Plan**



2.It is a plane which has a horizontal line (x axis) and a vertical line (y axis). It is also known as coordinate plane.

From the site: www.dm.unibo.it

Line graph



3.This is a line graph to show a trend or data using X and Y axes.

From site: softchalk.com

Statistics/2

Statistics studies phenomena or facts that involve a large amount of subjects (people, animals, things).

The bar chart

In picture #1 we can see data referred to “The favorite sport” ; the coloured lines named histograms immediately show people’s preferences. The line from 0 to 5 corresponds to 5 people....

The average

Now we analyze data of an Italian school: Primary school “Don Milani”

1^A	1^B	1^C	2^A	2^B	2^C	3^A	3^B	3^C	4^A	4^B	4^C	5^A	5^B	5^C	classes
25	24	25	23	25	24	24	22	24	25	24	23	24	24	21	students
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	data

In Statistics we can’t report all the numbers , we use only a number, this number is the **average**.

How to calculate an **average** ?

1. Add the numbers together
 $25 + 24 + 25 + 23 + 25 + 24 + 24 + 22 + 24 + 25 + 24 + 23 + 24 + 24 + 21 = 357$ (sum)
2. Divide the sum by the number of the data
 $357 : 15 = 23,8$

Adaptation from: AA VV Sussidiario CETEM vol 5

The Cartesian plan and the line graph

We use the Cartesian plan to register changes: human temperatures , weather temperatures,...

We use the Cartesian plan more or less like a “Battle Ship”.

We can draw a dot using a pair of numbers from X and Y axes (*look at the pictures 2,3 on page 1*)

In the line graph (*in picture #3*) the student that are 9 years old, are.....

What was the weather like?

Student A/1

Look at the sheet taken from the website www.3Bmeteo.com which describes the weather in Grigno from Saturday 9th of May 2015 and tell your friend (student B) how the weather was.

Day	Weather	Morning	Afternoon
-----	---------	---------	-----------

Saturday 09 May	Changeable	Temperature 14°C Wind weak 4Km/h var Rain - Humidity 91 %	Temperature 27°C Wind weak 2Km/h var Rain - Humidity 49 %
Sunday 10 May	Sunny	Temperature 10°C Wind weak 6Km/h NNW Rain - Humidity 75 %	Temperature 27°C Wind weak 6Km/h SW Rain - Humidity 37 %
Monday 11 May	Changeable	Temperature 13°C Wind weak 2Km/h var Rain - Humidity 89 %	Temperature 28°C Wind weak 6Km/h S Rain - Humidity 70 %
Tuesday 12 May	Rainy	Temperature 10°C Wind weak 0Km/h var Rain 0 – 7 mm Humidity 80 %	Temperature 10°C Wind weak 2Km/h var Rain 0 – 5 mm Humidity 80 %
Wednesday 13 May	Sunny	Temperature 10°C Wind weak 7Km/h NNW Rain - Humidity 70 %	Temperature 27°C Wind weak 6Km/h SW Rain - Humidity 30 %
Thursday 14 May	Sunny	Temperature 10°C Wind weak 7Km/h NNW Rain - Humidity 70 %	Temperature 23°C Wind weak 6Km/h SW Rain - Humidity 50 %
Friday 15 May	Rainy	Temperature 12°C Wind weak 7Km/h NNW Rain 0 -10 mm Humidity 90 %	Temperature 18°C Wind weak 6Km/h SW Rain 0 – 10 mm Humidity 90 %
Saturday 16 May	Changeable	Temperature 12°C Wind weak 7Km/h NNW Rain - Humidity 80 %	Temperature 12°C Wind weak 7Km/h NNW Rain - Humidity 80 %
Sunday 17 May	Sunny	Temperature 12°C Wind weak 7Km/h NNW Rain - Humidity 70 %	Temperature 23°C Wind weak 7Km/h NNW Rain - Humidity 60 %

Student

Answer the questions and complete the sentences.

In Grigno

There were..... sunny days.

There _ _ _ _ changeable days.

_ _ _ _ _ were.....rainy days.

There were..... s _ _ wy days.

There were.....wi _ _ _ days.

There were.....f _ _ _ _ y days.

T _ _ _ _ _stormy _ _ _ _ _.

There were....._ l _ u _ y days.

Th _ r _ were.....partly _ _ _ _ _ days.

Total considered days.....

The most frequent weather condition was

The less frequent weather condition was.....

Be careful: -> fill in the numbers , _ _ _ -> fill in the letters

How was the temperature?

Student D/1

Look at sheet taken from the website www.3Bmeteo.com which describe the weather in Grigno from Saturday 09th of May 2015 and tell your friend the maximum and minimum temperature for each day.

Day	Weather	Morning	Afternoon
Saturday 09 May	Changeable	Temperature 14°C Wind weak 4Km/h var Rain - Humidity 91 %	Temperature 27°C Wind weak 2Km/h var Rain - Humidity 49 %
Sunday 10 May	Sunny	Temperature 10°C Wind weak 6Km/h NNW Rain - Humidity 75 %	Temperature 27°C Wind weak 6Km/h SW Rain - Humidity 37 %
Monday 11 May	Changeable	Temperature 13°C Wind weak 2Km/h var Rain - Humidity 89 %	Temperature 28°C Wind weak 6Km/h S Rain - Humidity 70 %
Tuesday 12 May	Rainy	Temperature 10°C Wind weak 0Km/h var Rain 0 – 7 mm Humidity 80 %	Temperature 10°C Wind weak 2Km/h var Rain 0 – 5 mm Humidity 80 %
Wednesday 13 May	Sunny	Temperature 10°C Wind weak 7Km/h NNW Rain - Humidity 70 %	Temperature 27°C Wind weak 6Km/h SW Rain - Humidity 30 %
Thursday 14 May	Sunny	Temperature 10°C Wind weak 7Km/h NNW Rain - Humidity 70 %	Temperature 23°C Wind weak 6Km/h SW Rain - Humidity 50 %
Friday 15 May	Rainy	Temperature 12°C Wind weak 7Km/h NNW Rain 0 -10 mm Humidity 90 %	Temperature 18°C Wind weak 6Km/h SW Rain 0 – 10 mm Humidity 90 %
Saturday 16 May	Changeable	Temperature 12°C Wind weak 7Km/h NNW Rain - Humidity 80 %	Temperature 12°C Wind weak 7Km/h NNW Rain - Humidity 80 %
Sunday 17 May	Sunny	Temperature 12°C Wind weak 7Km/h NNW Rain - Humidity 70 %	Temperature 23°C Wind weak 7Km/h NNW Rain - Humidity 60 %

Temperature average

Students A,B,C,D,E/1

Calculate the **average** of maximum temperatures from the 9th of May to the 17th of May 2015

The _____ is.....°C

Calculate the **average** of minimum temperature from 9th May to 13th May 2015

The _____ is.....°C

What was the hottest day ?

What was the coolest day?

What is the temperature range of Tuesday the 13th of May?

.....

Report

Student F/1

We observed the data from the site <http://www.3bmeteo.com/meteo/grigno>
about the temperature from..... to.....

We observed days in total.

In these days the weather was: good bad so and so

The of temperature was of.....degrees.

The hottest day was

The coolest day was.....

In this lesson we have learned:

.....

.....