

# SMART PROJECT

**5<sup>th</sup> International Meeting**  
**Günzburg 15<sup>th</sup> – 17<sup>th</sup> February 2016**

Science and Mathematics Advanced Research for good Teaching

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**“Conducting a Survey”**

**2AI4 - Second class**

**15 Students**

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# **BASIC CONCEPTS**

Population

Unit

Variable (qualitative or quantitative, discrete or continuous)

Mean

Mode

Median

Frequency Distribution

Class Frequency Distribution

**Data collection** (census vs sampling)

**Data representation** (histogram, ortogram, pie chart)

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## **Survey about Genre Stereotypes**

They interviewed 70 other students, collecting their colleagues' answers and elaborating them with Excel

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TITLE of PROBLEM: **Conducting a Survey**

Content Area: **Uncertainty**

Key ideas: **Production of data, data analysis**

Topics-Contents: **Statistical analysis**

Prerequisites-Required in advance: **Basics of statistics**

Skills-Abilities: **Conducting a statistical survey; collecting, organizing and analyzing data**

Competences: **Understanding which data are required and their characters; choosing the best statistic indices for describing data**

## DATA COLLECTION

### Question1: Where are you from?

Answers:

Student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Place	Valeggio o	Pizzolet ta	Valeggio o	Sona	Ponti s/M	Ponti	Sona	Monza mbano	Roverb ella	Azzano	Valeggio o	Peschie ra	Pradelle	Volta Mantov ana	Bussole ngo

### Question 2: How long does it take for you (in minutes) going from home to school?

Answers:

Student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Time (m)	13	5	13	20	35	30	20	30	15	20	13	40	5	30	25

Place	Valeggio	Ponti	Sona	Bussolengo	Roverbella	Pesch.	Pizzoletta	Nog. Rocca	Azzano	Volta M	TOT.
N° of stud.	3	2	2	1	1	1	1	1	1	1	15

Time	0-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40	TOT	Media
N° of stud.	2	0	4	3	1	3	1	1	15	19,33



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