

Use of data



UNTAMED
EDUCATION

1.4.1 Use of data

Qualitative Data

Focus group

Quantitative Data

Questionnaires

Use of Data

Surveys

Interviews

Observations

Measurements



Use of data

1. Types of data

Qualitative Data	Quantitative Data
Data can be observed but not measured	Data can be measured
Describes the data	Measures the data
Colours, textures, smells, taste	Height, weight, temperature, age, speed, time
Qualitative - Quality	Quantitative - Quantity

2. Sporting examples



Qualitative Data	Quantitative Data
Good cycling line, relaxed position, good head position.	Time, speed, cadence.



Use of data



Qualitative Data

Good standing foot position, preparatory swing, good head position.

Quantitative Data

Speed and direction.

3. Methods of collecting data

Quantitative data

- ▶ _____
- ▶ _____
- ▶ _____



Qualitative data

- ▶ _____
- ▶ _____
- ▶ _____



4. Types of presenting data

Three types of **data presentation** formats

- ▶ _____
- ▶ _____
- ▶ _____





Use of data

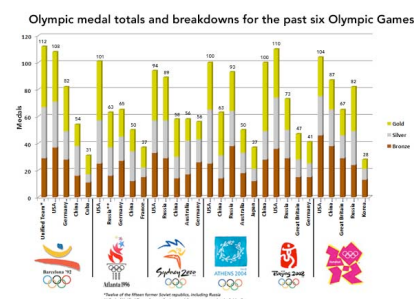
5. Tables

- ▶ Show _____.
- ▶ Give exact _____ between collected data for analysis.
- ▶ Organised in **rows** and **columns**.
- ▶ **Table** _____ and columns and rows _____.

					
Olympische Medaille Prognose					
R	NOC				Total
1	 USA	42	19	28	89
2	 CHN	37	35	20	92
3	 RUS	20	30	30	80
4	 DUI	17	22	17	56
5	 GBR	15	26	18	59
6	 AUS	12	12	16	40
7	 JAP	10	13	10	33
8	 ITA	9	11	15	35
9	 KEN	9	5	5	19
10	 ZKO	9	2	16	27
					
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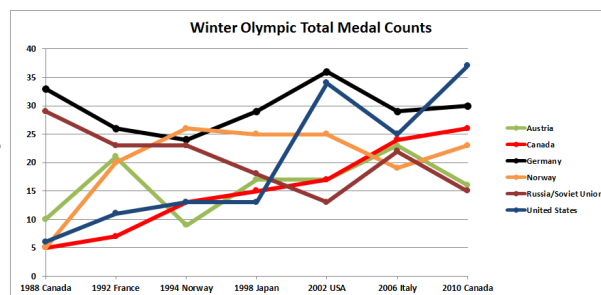
6. Bar chart

- ▶ **Horizontal** and **vertical axis**.
- ▶ **Rectangular** _____ showing data comparisons.
- ▶ _____ the axis and graph.
- ▶ _____.
- ▶ **Comparing** the size of each bar allows direct comparison and **analysis**.



7. Line graph

- ▶ **X** and **Y** axis
- ▶ Plot _____ and draw _____ between them.
- ▶ **Label** the axis and graph.
- ▶ **Legend**.
- ▶ Comparing the **increases** and **decreases** in each line allows for direct **comparison and analysis**.



8. Pie chart

- ▶ Divided into **sectors** and each sector represents a _____ of the whole.
- ▶ _____ and **labels** for each sector with a legend
- ▶ Comparison of the **sector size** enables the _____ of the data.

