Qualitative vs Quantitative Data

Qualitative Data

•Deals with descriptions.

•Data can be *observed* but not measured.

•Colors, textures, smells, tastes, appearance, beauty, etc.

•Qualitative \rightarrow Quality

Quantitative Data

•Deals with numbers.

•Data which can be measured.

Length, height, area, volume, weight, speed, time, temperature, humidity, sound levels, cost, members, ages, etc.

•Quantitative \rightarrow Quantity



*texture shows brush strokes of oil paint



*surface area of painting is 140 sq. in.



*picture is 10" by 14"



*smells old and musty



*the painting costs \$300



*the latte is in a mug that appears to be made of glass



*12 ounces of latte



*robust aroma



*serving temperature 65° C



*serving cup 7 inches in height



*friendly demeanors



*the student body numbers 972 students



Example 3: Sa-Hali Students

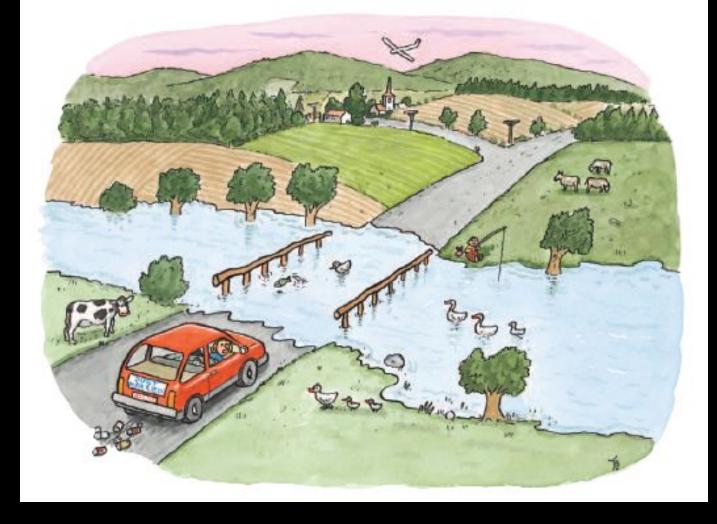
*Most of the students self-identify as environmentalists



*78% of students belong to a sports team or other school club



*the school was built in 1974



Make one qualitative observation about the picture above. Explain why this is a qualitative observation.

Make one quantitative observation about the picture above. Explain why this is a quantitative observation.



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