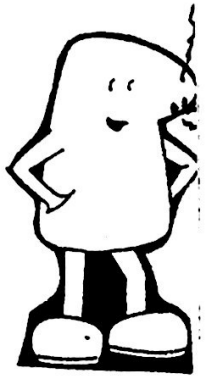


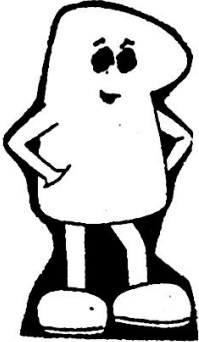
Qualitative or Quantitative:

Purpose/Problem: The distinguish between qualitative and quantitative observations.

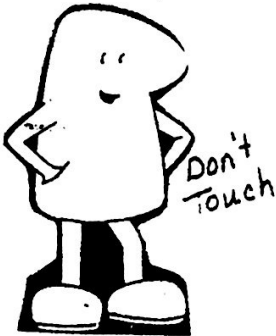


Research/Hypothesis: Answer the following questions.

1. What is a qualitative observation? Give 5 examples
2. What is a quantitative observation? Give 5 examples
3. What is a fact?
4. How can a quantitative observation become a fact?



Experiment:



A. Equipment and Materials - YOU, classroom and measuring equipment

B. Procedure

1. Identify 15 qualitative observations about this classroom. You may include aspects of yourself. Keep them school appropriate.
2. Identify 15 quantitative observations about this classroom. Keep them school appropriate.

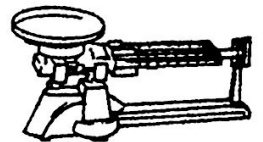
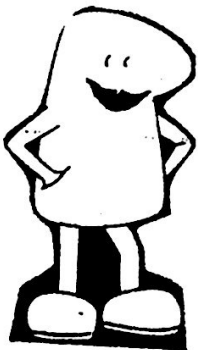


Graduated cylinders

Data: Create a colorful chart to display your observed data.

Conclusion: Answer the following questions in complete sentences on a sheet of notebook paper.

1. Name 5 things that you chose to observe that someone else (another group) chose to observe.
2. Name 5 unique things you observed that no one else did.
3. List 5 things that are facts from your data chart.
4. Why is qualitative data less reliable than quantitative data?
5. How can qualitative data be changed to make it more acceptable?



Platform balance