



# Problem No.17- Invent yourself: Weight

Opposition, Team Greece  
**Myrto Floridou**

Hellenic Physical Society  
I.Y.N.T. 2020



# Reporter's Theory - Pros & Cons

1. Clear definitions.
  2. Well-structured presentation.
  3. Sufficient theoretical support of the results.
  4. Included relevant parameters.
  5. Included visual aids.
1. The entire presentation was about mass, when the problem was about weight.
  2. Irrelevant theory (water-osmosis)
  3. No theory provided for the animals.

# Experiment-Pros & Cons

1. Interesting approach of the phenomenon
2. Clear hypothesis
3. Well conducted experiments
4. Good experimental design & process
5. Interesting results
6. Justified conclusions that verified the hypothesis and confirmed the theory
7. Reference to the possible errors and the reasons behind them

1. Didn't include parameters/only included information about the plant
2. Unclear method
3. Subjective quantitative parameters (a glass of water)
4. Not enough parameters tested
5. Experiments conducted in a non-controlled environment
6. Unclear method (how he cleaned the plant)
7. No errors and reasons behind them explained
8. The way he cleaned the plant before weighting causes errors
9. No error bars included in the graphs
10. No variables
11. The experiments were only 3 & 5 minutes
12. Missed important variables like the places the reporter conducted the experiment, the pH of the soil, etc.
13. Inaccurate testing of the mice's mass (it was moving).



# Theory vs Experiment - Pros & Cons

1. Connected well the theory to experiments.
2. Detailed graphs.

1. Quite chaotic conclusions
2. No errors explained
3. Irrelevant topics addressed
4. Inaccurate conduction of experiment.

# Suggestions for further improvement

- Explain the errors of your measurements and the reasons behind them
- Take more measurements per experiment so you can see the points of interest that appear in the graphs
- Have more precise measurements
- Include more and significant variables and parameters
- make the experiment last more time in order to have more accurate measurements



# Thank you for your attention!

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