

Evidence Before Explanation — Competition Corner

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These three Week 1 challenges are items 18–20 on the worksheet. Defend a method; a bare answer earns little credit.

1. Tablet times are 52, 50, 51, 93 s; the last tablet stuck to the cup. Find mean and median, then write a transparent decision rule for handling the result.
2. Competing models say ice floats because of density or because it is cold. Propose a measurement plan capable of distinguishing them.
3. One brand has one 40-mL result; another has 20, 22, 21 mL results from half-area sheets. Test the “twice as absorbent” claim fairly.