

Lab, The Determination of g by Dropping Balls

Name _____ Period _____

PURPOSE: To find a rough value for g at SLVHS using three different balls.

WARNING!... When mounting the lab tables, DO NOT PULL ON THE PIPES OR RINGSTANDS!

PROCEDURE:

1. Time the dropping of each ball as accurately as we can. The higher we drop them, the more accurate will be the timing.
2. Then we shall perform the calculations using the appropriate formula and the *Hup, Two, Three, Four.*
3. We shall then calculate our percentage errors. They may be rather high for such a crude experiment.

DATA TABLE:

Ball Description	Distance of Fall in meters	Time in seconds	g in m/s ²	% error
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CALCULATIONS:

Percent Error = your error/accepted value X 100%. Your error is the difference between your answer and the accepted value. Use 9.8 m/s² for the accepted value.

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Write a CRITIQUE: