

When DH tried to measure the time for 5 oscillations, t_5 , was anything wrong with his procedure?

- A. No
- B. Yes, he should have counted "**Zero**" when he started the stopwatch
- C. Yes, he should have started and stopped the stopwatch when the pendulum was at its maximum amplitude, not at the bottom of its swing

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We have repeated measurements of some quantity

We assume that the distribution of the repeated measurements is "normal" i.e. that repeating an infinite number of times would give a Gaussian histogram. You choose one of the measurements randomly. What is the probability that it lies within one standard deviation σ of the true value of the mean?

- A. 0%
- B. 50%
- C. 68%
- D. 95%
- E. 100%

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The result of measuring the time for five oscillations, t_5 , was:

7.53 s

7.38 s

7.47 s

7.43 s

Choose the best estimate of the error in your first measurement, i.e. in 7.53 s:

A. 0.005 s

B. 0.05 s

C. 0.5 s

D. 5 s

E. Impossible to determine