

When plotting a graph, the first thing to be considered is \_\_\_\_\_

Scale on the axes

In an experiment, time is measured to be  $T = 1.71 \pm 0.10$  s. The fractional error in time is \_\_\_\_\_

0.06 s

Simple pendulum has its maximum acceleration at \_\_\_\_\_

Maxima and coming back to the mean position

One of these is not a type of systematic errors \_\_\_\_\_

Random error

If  $S = A^2$  then the fractional error in S is \_\_\_\_\_

$2(dA/A)$

Which of these errors can be quantified by statistical analysis

Random error

The physical interpretation of the slope of graph of displacement-time graph is \_\_\_\_\_

Velocity

The measured value of mass M in an experiment is  $M = 0.743 \pm 0.005$  kg. The error in  $2M$  is

$2dM$

Given that  $S = 0.63 \pm 0.02$  m, the fractional error in S is \_\_\_\_\_

0.03 m

A measurement which is close to the true value of measurement is

accurate

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