Answer on Question #55626, Physics / Other

The maximum possible error in the measurement of length using the metre scale is ------

- A. 0.5
- B. 0.05
- C. 0.005
- D. 0.0005

Solution:

Accuracy depends on the instrument you are measuring with.

But as a general rule:

The degree of accuracy is half a unit each side of the unit of measure.

If we use a metre scale for measurement of length, it may have graduations at 1 mm division scale spacing or interval.

So if your ruler has 1mm divisions, then the error is 0.5mm.

 $0.5 \text{ mm} = 0.5*10^{-3} \text{ m} = 0.0005 \text{ m}$

Answer: A. 0.5

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