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 1 mm divisions, then the error is 0.5 mm .

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

Answer: A. 0.5

