

RULER SCALES:

A) 1 cm GRADUATIONS = ± 0.1 cm

ESTIMATED

Name: KEY (EXAMPLES)

* B) * 0.1 cm GRADUATIONS = (1 mm)

Section: _____

= ± 0.05 cm = ± 0.5 mm

ESTIMATED

*(BEST

Report Form - Metric Measurement

MEASUREMENT
Length and Area TOOL)

1. Equipment Drawer			
A) 21.5 cm ± 0.1 cm	B) 21.50 cm ± 0.05 cm	A) 0.215 m ± 0.001 m	m*
2. Large Test Tube		B) 0.2150 m ± 0.0005 m	
A) 15.0 ± 0.1 cm	A) 15.0 ± 1 mm*	A) 150 ± 1 mm*	
B) 15.00 ± 0.05 cm	B) 15.00 ± 0.0001 m	B) 150.0 ± 0.5 mm*	
3. Crucible		A) 4.3 ± 0.1 cm	A) 0.043 m*
B) 4.35 ± 0.05 cm	B) 4.35 ± 0.001 m	A) 43 ± 1 mm*	
4. Page		B) 0.0435 m	B) 43.5 ± 0.5 mm*
A) 27.9 ± 0.1 cm	A) 27.9 ± 1 mm*	A) 279 ± 1 mm*	
B) 27.90 ± 0.05 cm	B) 27.90 ± 0.001 m	B) 279.0 ± 0.5 mm*	
Area of Page (Show your calculations on the last page of the Report Form.)			
Length	Width	Area in cm ²	Area in mm ² & m ²
A) 27.9 ± 0.1 cm	A) 21.5 ± 0.1 cm	(599.85) cm ² *	A) 0.0600 m ² *
B) 27.90 ± 0.05 cm	B) 21.50 ± 0.05 cm	A) 600. ± 1 cm ²	B) 0.05999 m ² *
		B) 599.9 ± 0.1 cm ²	A) 60,000 mm ² *
			B) 59,990 mm ²

Show the calculations for each of the entries in the Data Table marked with * on the calculations page.

$$\begin{aligned} \text{cm}^2 &\rightarrow \text{m}^2 = \frac{600 \text{ cm}^2}{100 \text{ cm} \times 100 \text{ cm}} \\ \left(\frac{100 \text{ cm}}{1 \text{ m}} \right) &\left(\frac{1 \text{ m}}{100 \text{ cm}} \right) \\ \text{cm}^2 &\rightarrow \text{mm}^2 = \frac{600 \text{ cm}^2}{(10 \text{ mm})^2} \end{aligned}$$