

Worksheet (Week 2) - Measurement

1. State the SI **unit name** of the following quantities:

- (i) Length
- (ii) Mass

2. State the number of significant figures in the following measurements.

(i) 0.109 m

(ii) 5003 cm

3. The measurements given below were taken during an experiment.

$$X = 18.7 \text{ cm}$$

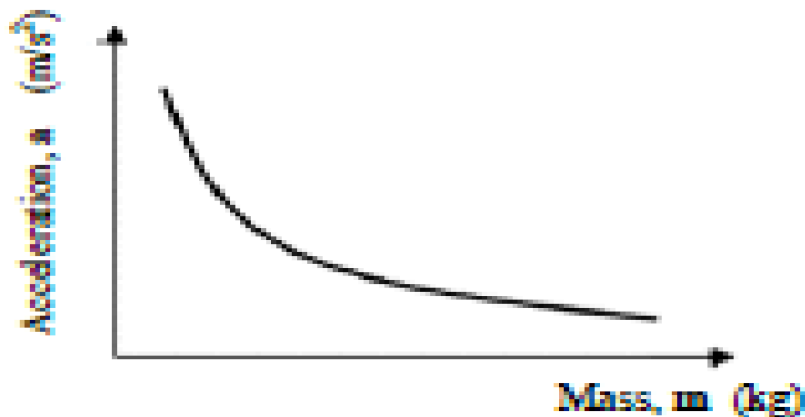
$$Y = 26.51 \text{ cm}$$

Calculate the following, expressing the answer to correct number of decimal places or significant figures.

(i) $X + Y$

(ii) $X Y$

4. The graph below shows the relationship between acceleration and mass.



i) State the relationship shown by the graph of acceleration versus mass.

(ii) On a separate axes, sketch the graph of a versus $\frac{1}{m}$.