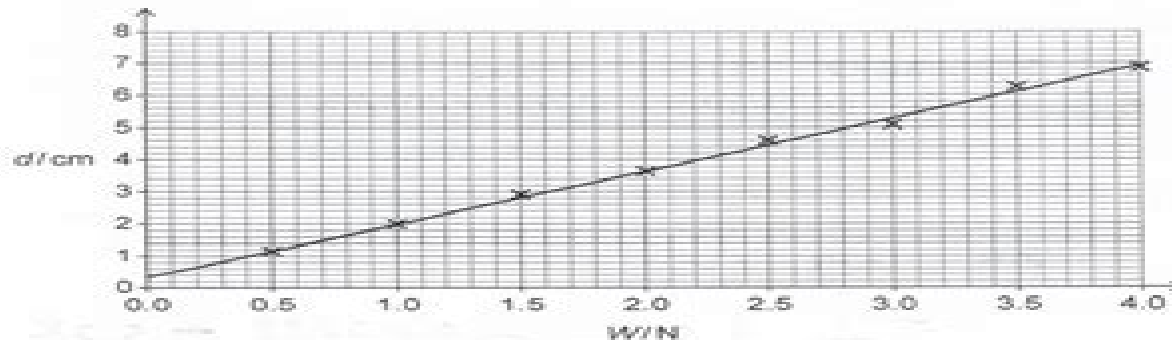


(Question 2 continued)

- (b) The variation of
- d
- with
- W
- is shown.



Outline one experimental reason why the graph does not go through the origin.

[1]

The weight of the ruler also causes the ruler to bend down slightly.

- (c) Theory predicts that

$$d \propto \frac{W^x L^y}{EI}$$

where E and I are constants. The fundamental units of I are m^4 and those of E are $\text{kg m}^{-1} \text{s}^{-2}$.

Calculate x and y .

[2]

$$\begin{aligned}
 EI \cdot d &\propto W^x L^y \\
 [EI d] &= \text{kg m}^{-1} \text{s}^{-2} \cdot \text{m}^4 \cdot \text{m} \\
 &= \text{kg m}^4 \text{s}^{-2} = \underbrace{\text{kg m s}^{-2}}_1 \cdot \underbrace{\text{m}^3}_3 = \text{N}^1 \cdot \text{m}^3 = [W]^x \cdot [L]^y = \text{N}^x \cdot \text{m}^y \\
 &\quad \text{compare the powers} \quad \therefore x=1, y=3
 \end{aligned}$$

(This question continues on the following page)



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