

IGCSE PHYSICS PAPER 6 WORKSHEET - BALANCING MOMENTS EXPERIMENT

Name: Model Answers

Date: 12 July 2023

1

- 1 A student determines the weight of a metre rule. She uses the apparatus shown in Fig. 1.1. The metre rule is supported by a pivot at the 10.0 cm mark and is suspended from a forcemeter by a loop of thread at the 90.0 cm mark.

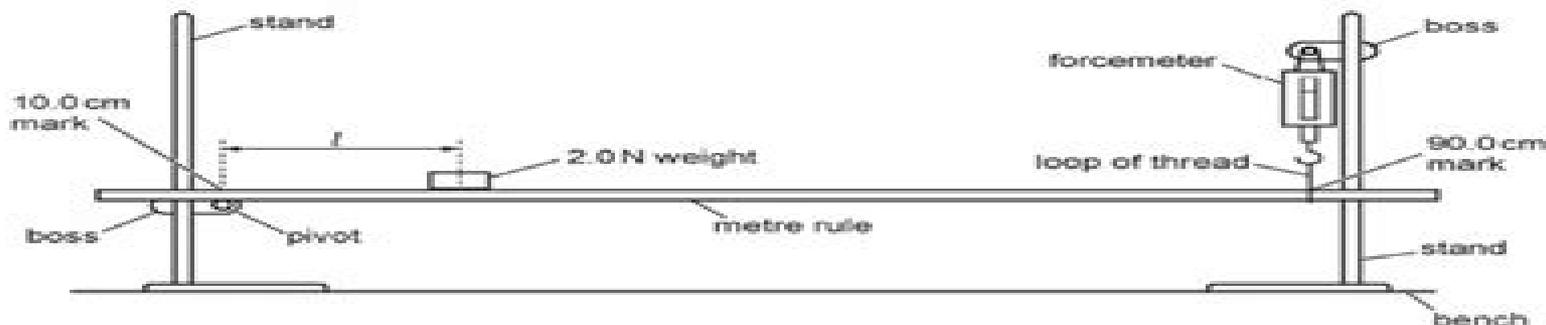


Fig. 1.1

- (a) The student places a 2.0 N weight at a distance l from the pivot. She then adjusts the height of the clamp holding the pivot so that the metre rule is horizontal. She reads the force F on the forcemeter. Fig. 1.2 shows the weight and the metre rule from above. Fig. 1.3 shows the reading on the forcemeter.



Fig. 1.2 (not to scale)

- (i) Calculate the value of l from readings taken from Fig. 1.2. Show your working clearly.

1 mark $\left\{ \begin{aligned} l &= 23.5 + \frac{26.5 - 23.5}{2} - 10.0 \text{ cm} \\ l &= 23.5 + 1.5 - 10.0 \text{ cm} \\ l &= 15.0 \text{ cm} \end{aligned} \right.$

$l = \dots\dots\dots 15.0 \dots\dots\dots \text{ cm} \quad [2]$
 (1 dp) 1 mark

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