

- (ii) The Principle of Moments applied to this situation leads to the following equation:

$$2.0x = Wy$$

Use your results in (b)(i) to determine a value for W .

[2]

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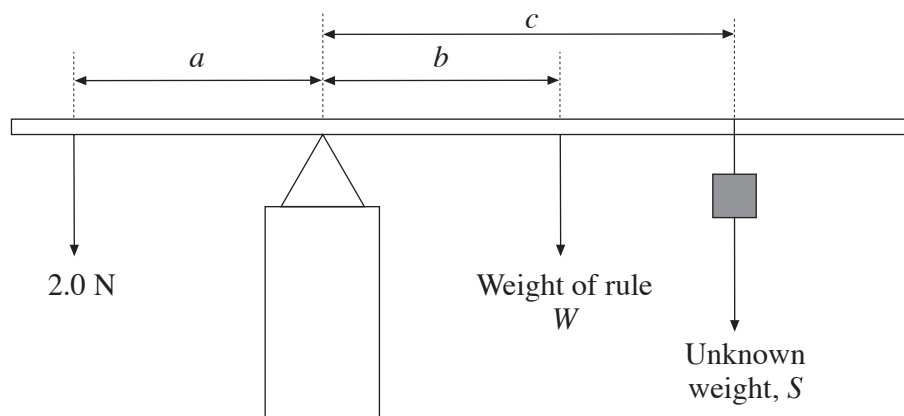
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- (c) Hang the unknown weight, S , on the opposite side to the 2.0 N weight and once again balance the rule.



Record the values of a , b and c .

[1]

$a =$ cm $b =$ cm $c =$ cm

Use the above information, and your value for the weight of the rule in (b) to calculate the unknown weight.

[3]

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