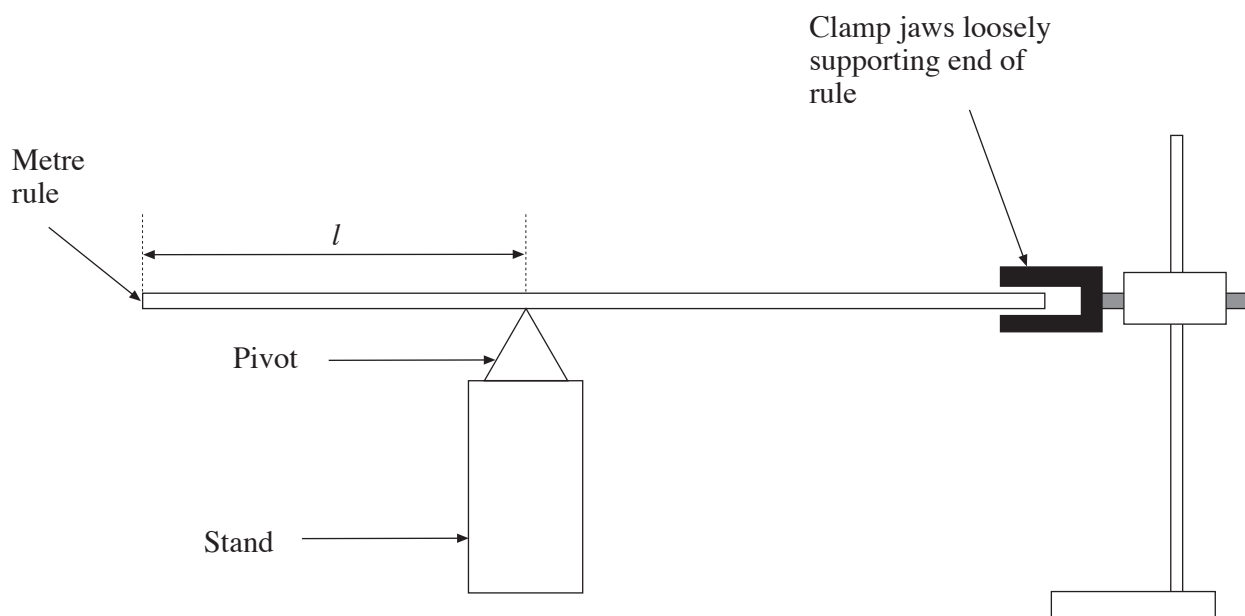


TASK A2 (15 minutes)

Repeat readings are not required for this task.

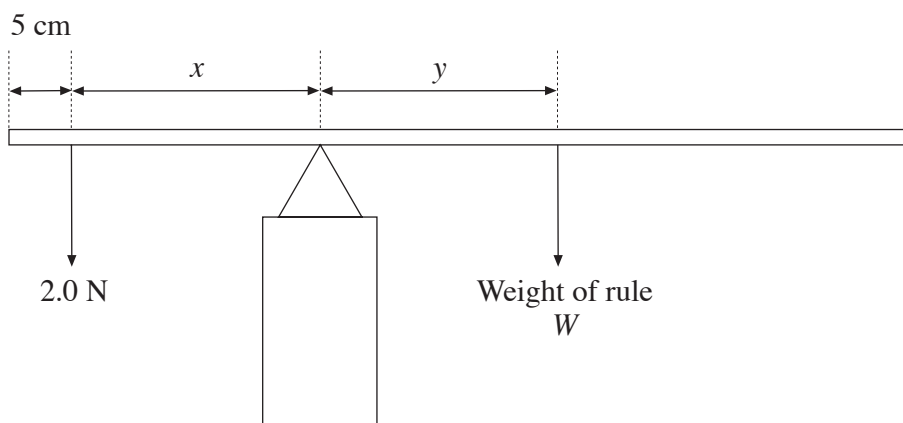
- (a) You are provided with the following apparatus.



Adjust the rule until it is just, **or very nearly**, balanced. The balance point is known as the centre of gravity of the rule. This is the point through which the whole of the weight of the rule, W , can be thought to act. Make a note of this length, l .

Answer given to 1 d.p. within 0.5cm of the centre value (1)

- (b) Hang a weight of 2.0N a distance of 5.0 cm from the left hand end of the rule, as shown, and once again adjust the ruler so that it balances.



- (i) Measure the distances x and y .

[1]

$x = \dots\dots\dots$ cm $y = \dots\dots\dots$ cm

Both values to 1 d.p. and within 0.5cm of centre value (1)