

- 3 A metre rule balances when the 50 cm mark is directly above a pivot.

(a) State where in the rule its centre of mass is located.

..... [1]

- (b) Fig. 3.1 shows an apple and a 0.40 N weight placed on the rule so that the rule remains balanced at the 50 cm mark.

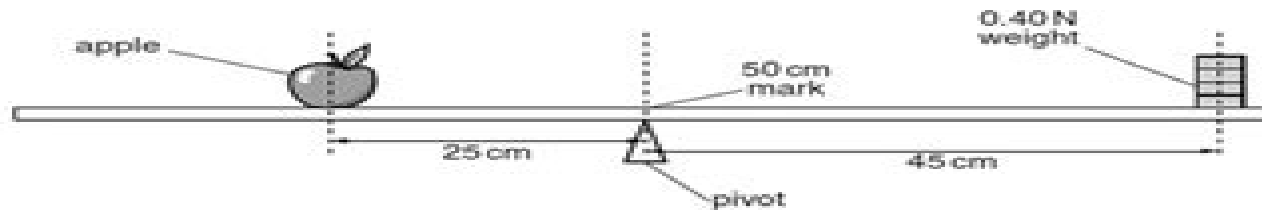


Fig. 3.1 (not to scale)

The centre of mass of the apple is 25 cm from the pivot and the centre of mass of the weight is 45 cm from the pivot.

Calculate

- (i) the weight of the apple,

weight = ..... [2]

- (ii) the mass of the apple.

mass = ..... [1]

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**Sheila Tarpey, David Sang, Darrell  
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