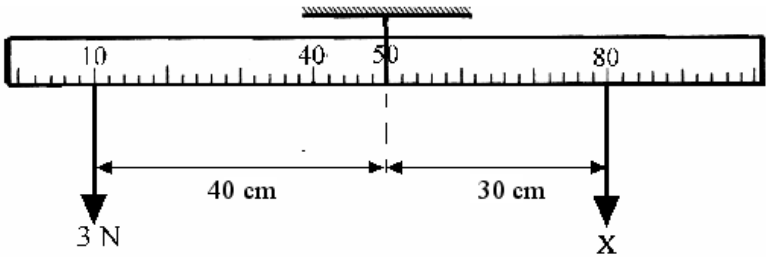
Question 1

(g)



A uniform metre stick, suspended at its mid-point is balanced as shown.
Calculate ***force*** X.

Calculate _____

Question 2

(*b*) State the ***law of the lever***.

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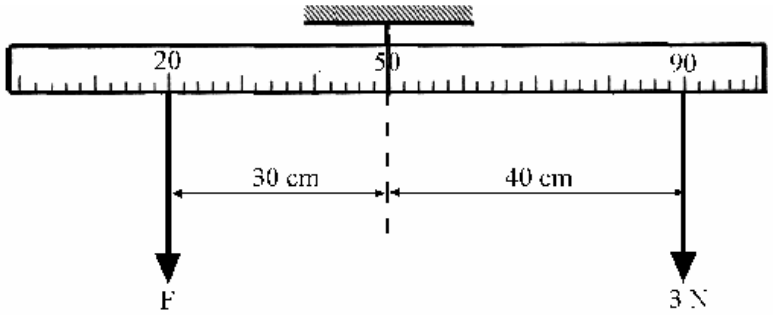
Question 3

(c) Define ***moment of a force***. (6)

(1) (2)



The diagram shows a metre stick suspended from its centre of gravity.
A force of 3 N acts on the stick at the 90 cm mark and a force of **F** N acts on the stick at the 20 cm mark. The metre stick is balanced horizontally.
Calculate ***force F***. (6)

Give an ***everyday example of an application of the lever***, using a labelled diagram, showing the ***fulcrum*** and at least ***one force*** acting on the lever.
Use the box provided for your labelled diagram. (6)