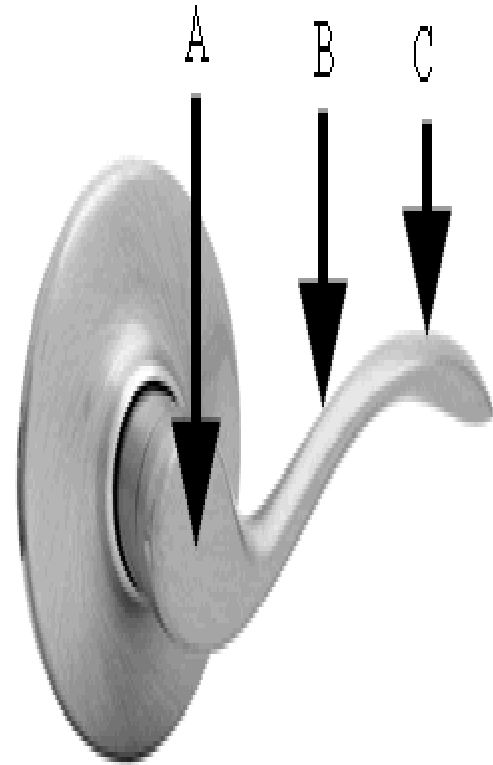


Turning effects
of levers –
exam questions

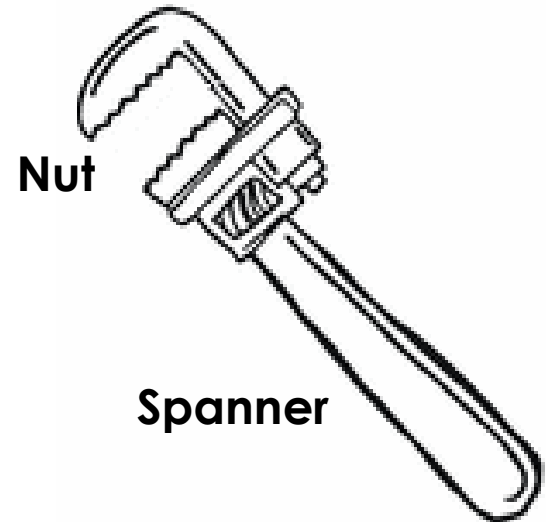
2011 - Higher

- The door handle is an application of a lever. The labels and arrows show three points. Which of the points **A**, **B** or **C** represent
 - The fulcrum (turning point)
 - The point where the smallest force will open the door lock



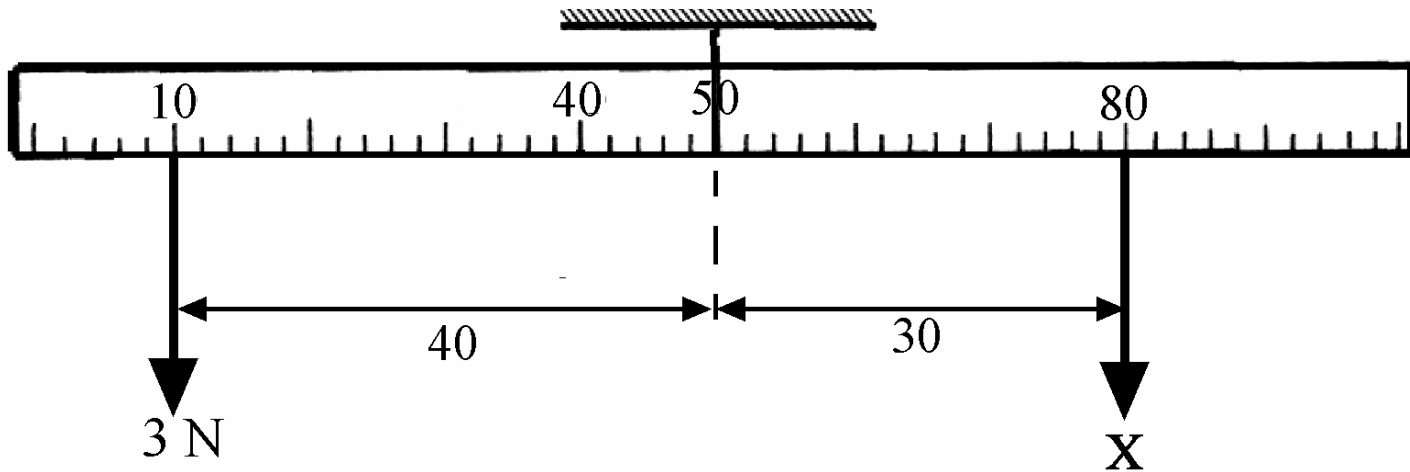
2011 - Ordinary

- The further away from the fulcrum (turning point) you apply a _____ the easier it is to turn a nut.
- The use of a spanner to turn a nut is an everyday example of using a _____.



**Lever
Force
Friction**

2010 - Higher



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

2010 - Ordinary

- Which of the following items **does not involve** a lever? Give a reason for your answer.



stapler



wheelbarrow



traffic cone



scissors

2008 - Higher

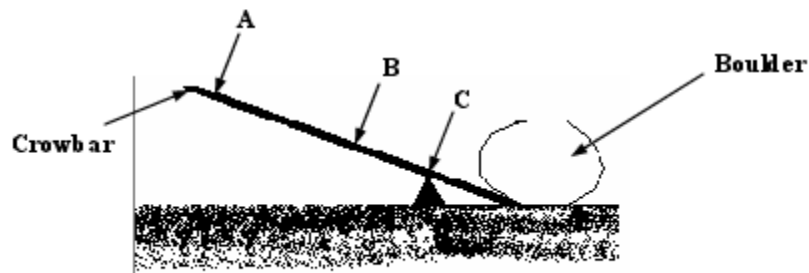
- State the ***law of the lever***.

2008 - Ordinary

- (b) The crowbar in the diagram acts as a lever and applies a turning force on the boulder (large rock).

Answer the questions which follow with reference to the points **A**, **B** and **C** in the diagram.

(12)

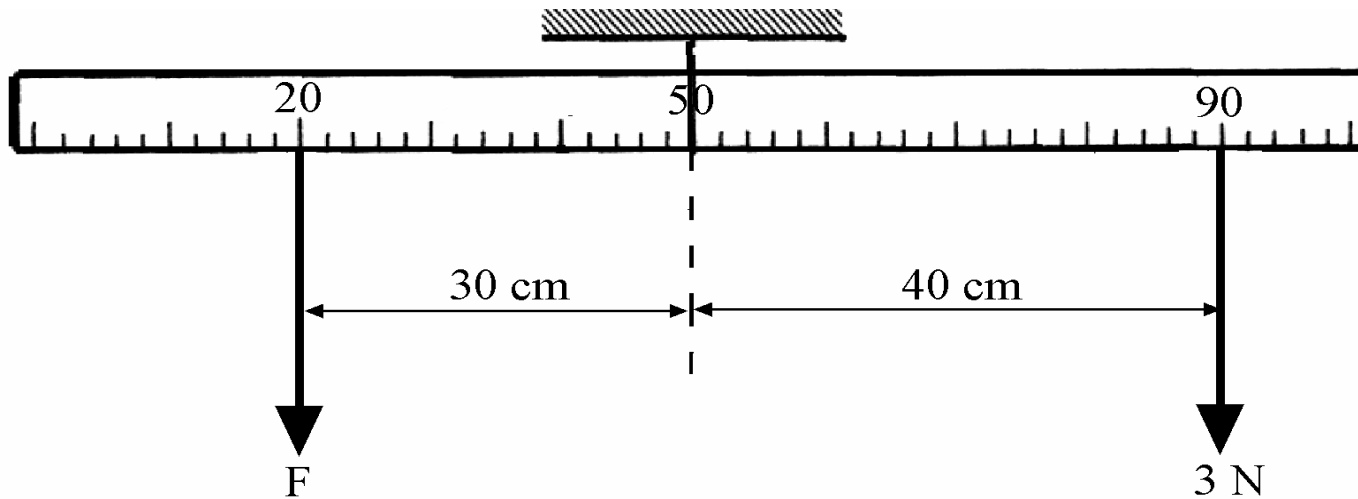


- (i) Which of the three points, **A**, **B** or **C**, is the fulcrum (the point about which the turning force acts)? _____
- (ii) At which of the three points, **A**, **B** or **C**, will the least force be needed to move the boulder? _____

Give a reason for your answer.

2007 - Higher

- Define ***moment of a force***.



- The diagram shows a meter stick suspended from its center 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 meter stick is balanced horizontally. Calculate force F .

- 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.