

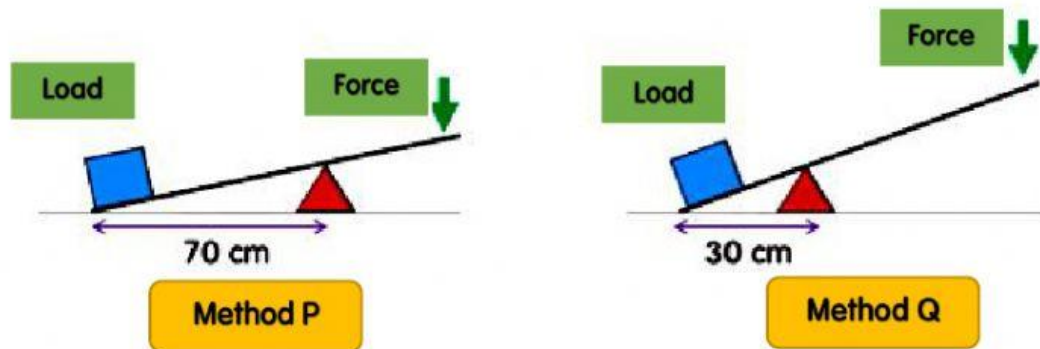


NAME : _____ CLASS : _____

UNIT 10 : MACHINES

LEVER - Relationship Between Load, Fulcrum and Force

- I. The diagram below shows an investigation carried out by a student. He tried to move the load using levers with different fulcrum positions.



- a) State the variables in this investigation.

- i) Manipulated variable : _____
- ii) Response variable : _____
- iii) Constant variable : _____

- b) Which method allows an object to be lifted with a small amount of force?

- c) State your reasons in (b)

The _____ method allows the object to be lifted using _____ because the _____ from the fulcrum is closer than the _____ method.

- d) State the relationship between the distance of the load from the fulcrum and the force needed to lift the load.

The _____ the load from the fulcrum, the _____ the force that is needed to lift the load.