

Answer on Question #65804-Physics-Classical-Mechanics

A 100 N force acting on a lever 2 m from the fulcrum balances an object 0.5 m from the fulcrum on the other arm. What is the weight on its mass (in kg)

Solution

From the equilibrium:

$$Fd = Ws$$

The weight is

$$W = F \frac{d}{s} = 100 \frac{2}{0.5} = 400 \text{ N.}$$

Answer: 400 N.

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