

A 1.0 kg rock is suspended by a light string from one end of a 1.0 m rod. What is the weight of the rod if it is balanced by a support force $\frac{1}{4}$ the distance from the "rock" end?

a) 0.25 kg

b) 0.5 kg

c) 1.0 kg

d) 2.0 kg

e) 4.0 kg

f) Impossible to determine.

