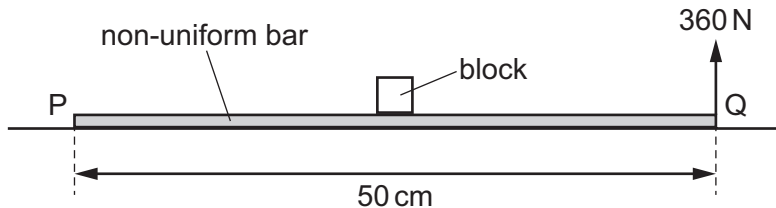


12 A non-uniform bar PQ has length 50 cm and weight 200 N.



A block of weight 400 N is attached to the top of the bar at its centre. The bar rests on horizontal ground.

A vertical force of 360 N is now exerted upwards on the bar at end Q and is just sufficient to lift end Q from the ground.

What is the distance from the centre of gravity of the bar to end P?

A 0.050 m

B 0.10 m

C 0.25 m

D 0.40 m