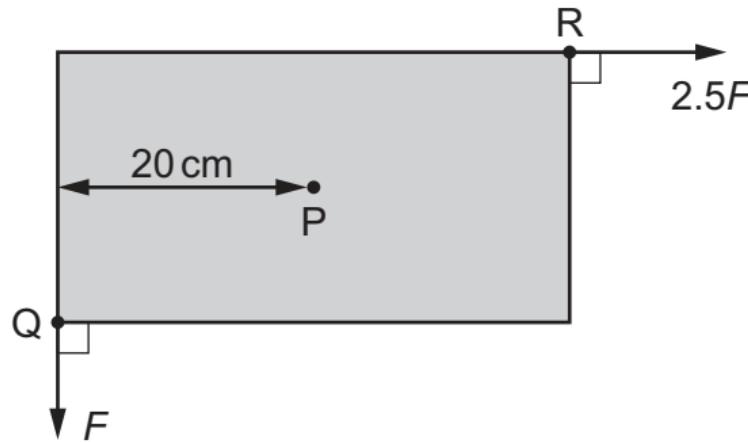


12 A uniform rectangular board is supported by a frictionless pivot at its centre point P.



Two forces act in the plane of the board. Force F acts at corner Q and force $2.5F$ acts at corner R. The perpendicular distance between the line of action of force F and point P is 20 cm. The board is in equilibrium.

What is the area of the board?

A 160 cm^2

B 320 cm^2

C 640 cm^2

D 1600 cm^2

13 A kite is in equilibrium at the end of a string, as shown.