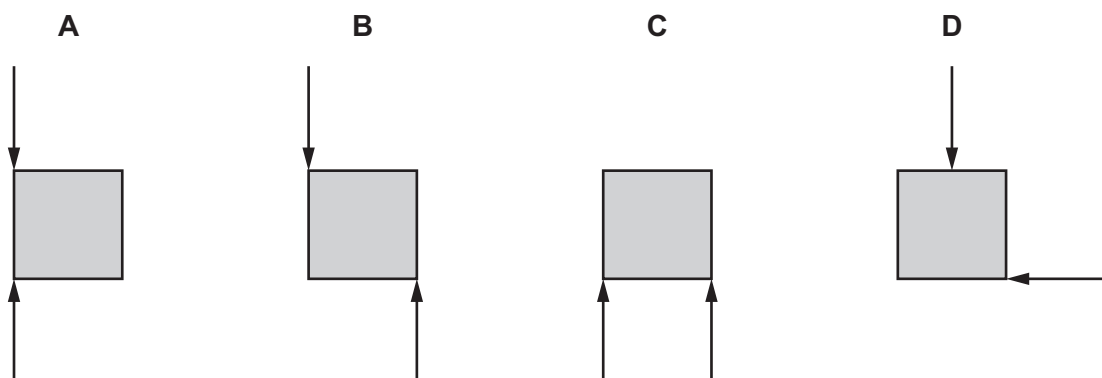
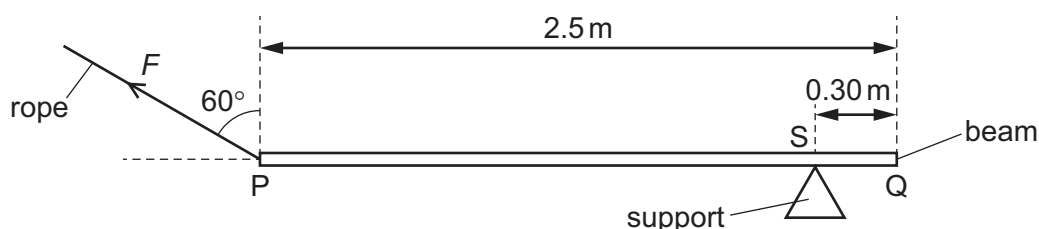


- 14 An isolated object of negligible weight is acted on by two coplanar forces of the same magnitude.

In which diagram is the object in equilibrium?



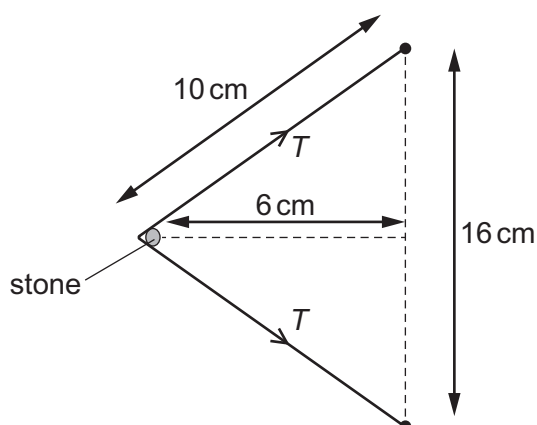
- 15 A uniform beam PQ rests horizontally on a support at point S.



A rope is attached at one end of the beam. The rope is at an angle of 60° to the vertical and exerts a force F , in newtons, on the beam.

What is the moment, in N m, of the force F about the point S?

- A $1.1F$ B $1.3F$ C $1.9F$ D $2.2F$
- 16 The diagram shows the dimensions of an elastic cord used to project a stone. The tension in the cord is T when the cord is pulled into the shape shown.



Which force does the elastic cord exert on the stone?

- A $\frac{3}{5}T$ B $\frac{6}{5}T$ C $\frac{8}{5}T$ D $2T$