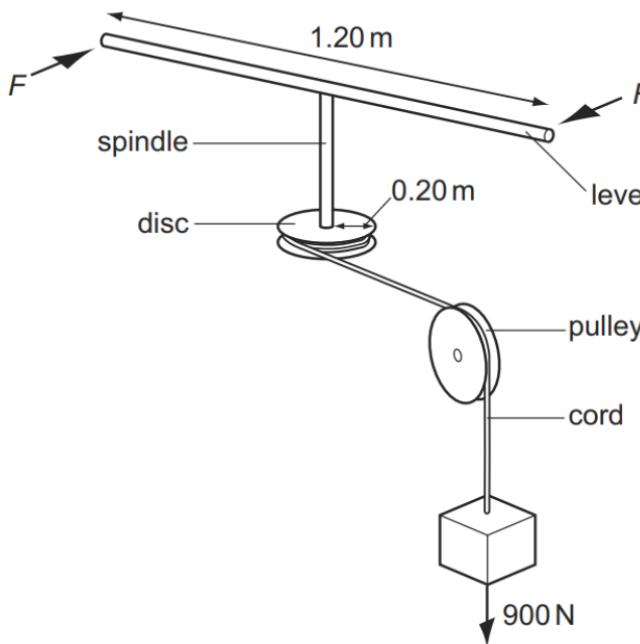


- 7 A spindle is attached at one end to the centre of a lever 1.20 m long and at its other end to the centre of a disc of radius 0.20 m. A cord is wrapped round the disc, passes over a pulley and is attached to a 900 N weight.



What is the minimum force  $F$ , applied to each end of the lever, that could lift the weight?

A 75 N

B 150 N

C 300 N

D 950 N

- 8 A turbine at a hydroelectric power station is situated at a vertical distance 30 m below the level of the