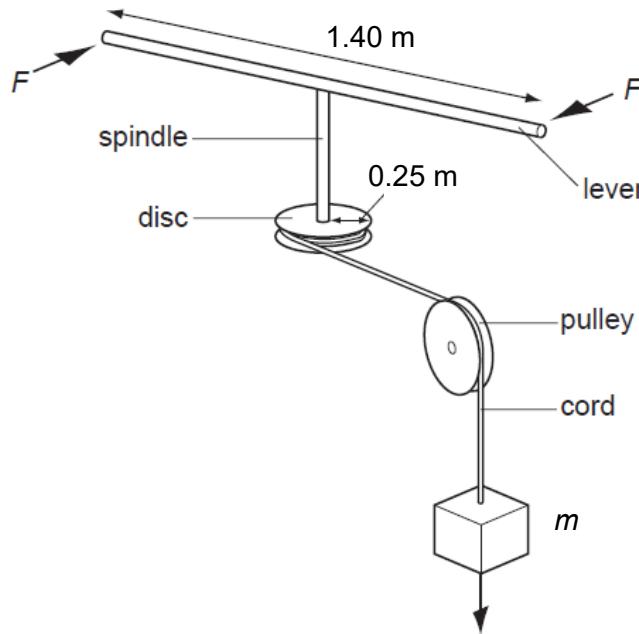


- 6 One end of a spindle is attached to the centre of a lever of length 1.40 m and its other end is attached to the centre of a disc of radius 0.25 m as shown in the figure below.

A cord is wrapped around the disc, passes over a pulley and is attached to mass,  $m$  at one end.



The mass of the lever, spindle, disc, cord and pulley is assumed to be negligible. Equal and opposite forces of magnitude  $F$  is applied to each end of the lever.

Ignoring frictional forces, what are the values of  $F$  and  $m$ ?

	$F / N$	$m / kg$
<b>A</b>	175	50
<b>B</b>	350	50
<b>C</b>	175	100
<b>D</b>	350	100