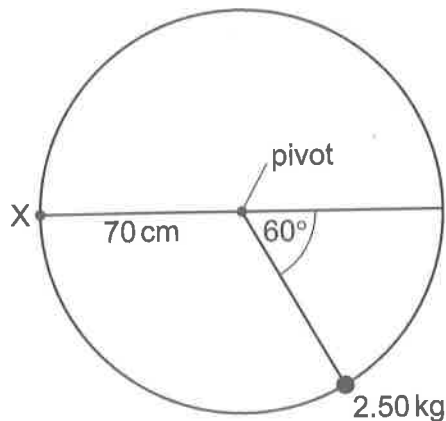


- 9 A uniform circular disc of radius 70 cm is pivoted at its centre. The plane of the disc is vertical. A 2.50 kg mass is attached to the disc as shown.



Which mass must be attached to the disc at X in order to keep it in equilibrium?

- A** 1.25 kg      **B** 1.79 kg      **C** 2.17 kg      **D** 5.00 kg

- 10 A lorry of mass 3000 kg pulls a trailer of mass 1000 kg with an acceleration of  $2.0 \text{ m s}^{-2}$ .