

- 6 A uniform ruler AB has mass 28 g and length 30 cm. As shown in Fig. 6, the ruler is placed on a horizontal table so that it overhangs a point C at the edge of the table by 25 cm.

A downward force of F N is applied at A. This force just holds the ruler in equilibrium so that the contact force between the table and the ruler acts through C.



Fig. 6

- (a) Complete the force diagram in the Printed Answer Booklet, labelling the forces and all relevant distances. [2]
- (b) Calculate the value of F . [2]