The rod rests on a single fixed pivot point, $C$ , where $AC = 2$ metres.
A particle of weight $\it W$ newtons is fixed at $\it A$ , as shown in the diagram.
$ \begin{array}{c} 7 \text{ m} \\ C \\ 2 \text{ m} \end{array} $
The system is in equilibrium with the rod resting horizontally.

A uniform rod, AB, has length 7 metres and mass 4 kilograms.

13

13 (a) Find W, giving your answer in terms of g.

13 (b) Explain how you have used the fact that the rod is uniform in part (a). [1 mark]

[2 marks]