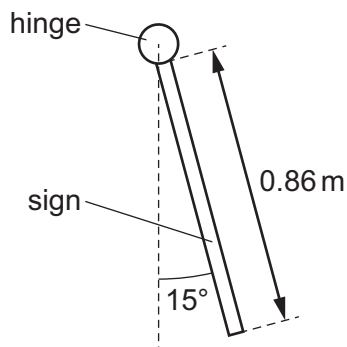


15 A square shop sign of uniform density has mass 2.4 kg and sides of length 0.86 m .

The sign is supported by a hinge along its top edge.

There is friction in the hinge so that the sign hangs from it in equilibrium at an angle of 15° to the vertical, as shown.



What is the moment about the hinge of the weight of the sign?

- A** 2.6 Nm **B** 4.0 Nm **C** 5.2 Nm **D** 9.8 Nm