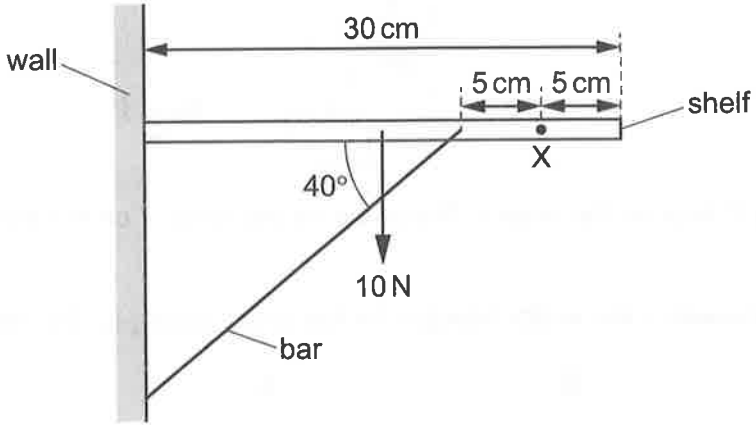
10 A uniform shelf of width 30 cm and weight 10 N is attached to a vertical wall.

It is kept horizontally in equilibrium by a rigid bar that is attached to the shelf 10 cm from its end and inclined at 40°, as shown.



A load is placed at point X which is 5 cm from the end of the shelf.

The compression force in the bar is 50 N.

What is the weight of the load?

A 20 N **B** 22 N **C** 25 N **D** 28 N