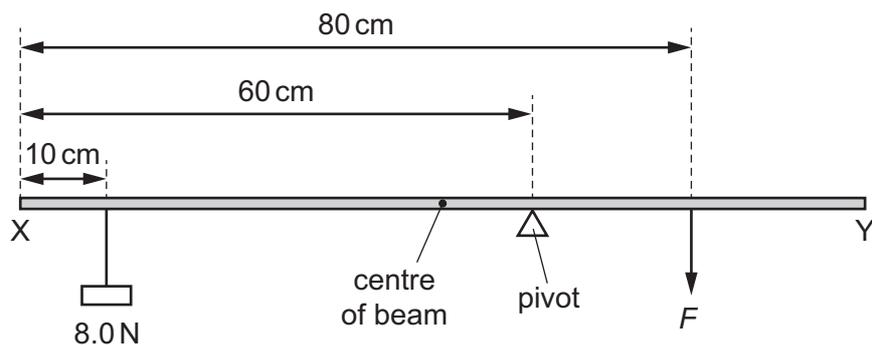


- 6 A uniform beam XY is 100 cm long and weighs 4.0 N.



The beam rests on a pivot 60 cm from end X.

A load of 8.0 N hangs from the beam 10 cm from end X.

The beam is kept balanced by a force F acting on the beam 80 cm from end X.

What is the magnitude of force F ?

- A** 8.0 N **B** 18 N **C** 22 N **D** 44 N
- 7 The diagrams show four table lamps resting on a table. The position of the centre of mass of each lamp is labelled X.

Which lamp is the most stable?

