## **Beam In Rotational Equilibrium**

- 1) A uniform horizontal beam has a length 8.00 m and a weight 200 M
- 2) The beam is free to rotate a pivot in a wall at one end of the beam
- 3) The other end of the beam is attached by a cable making a 53° angle
- 4) A man of weight 600 N is standing on the beam 2.00 m from the wall
- 5) What is the tension *T* in the cable, and the force *R* exerted by the pivot?

