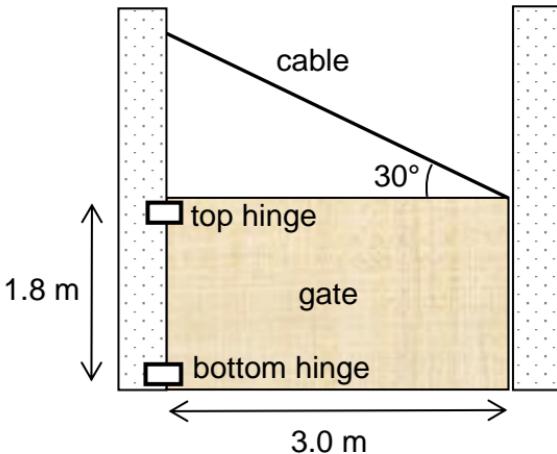


- 7 A uniform farm gate is 3.0 m wide and 1.8 m high, with hinges attached to the top and bottom of the gate. A cable makes an angle of  $30^\circ$  with the top right corner of the gate and has a tension of 200 N. The mass of the gate is 40 kg.



What is the magnitude and direction of the horizontal force exerted by the top hinge on the gate?

- A 13 N to the left
- B 13 N to the right
- C 160 N to the left
- D 160 N to the right