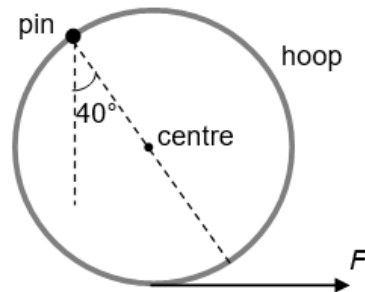


- 4 A uniform hoop of weight 20 N can rotate freely about a pin fixed to a wall.

The hoop is held at an angle of  $40^\circ$  by a horizontal force  $F$  as shown.



What is the value of  $F$ ?

- A** 7.3 N                      **B** 7.8 N                      **C** 9.3 N                      **D** 17 N