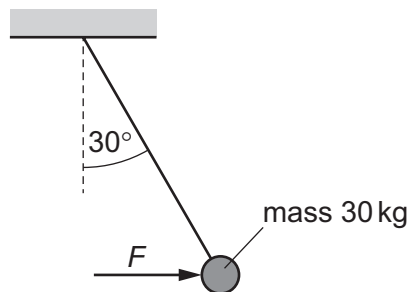


- 13** A mass of 30 kg is suspended from the end of a wire. A horizontal force  $F$  acts on the mass so that it is in equilibrium, with the wire at an angle of  $30^\circ$  to the vertical, as shown.



What is the magnitude of  $F$ ?

- A** 17 N                      **B** 150 N                      **C** 170 N                      **D** 510 N