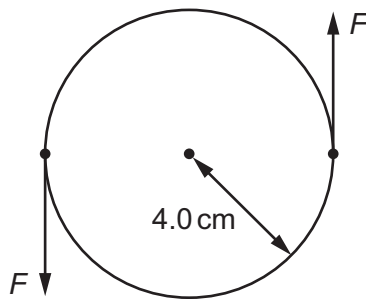**11** A minimum torque of 20 N m must be applied to the lid of a jar for it to open. The radius of the lid is 4.0 cm.

4.0 cm

F

F

What is the minimum force *F* that must act on each side of the lid in order to open it?

A 2.5 N   **B** 5.0 N   **C** 250 N   **D** 500 N