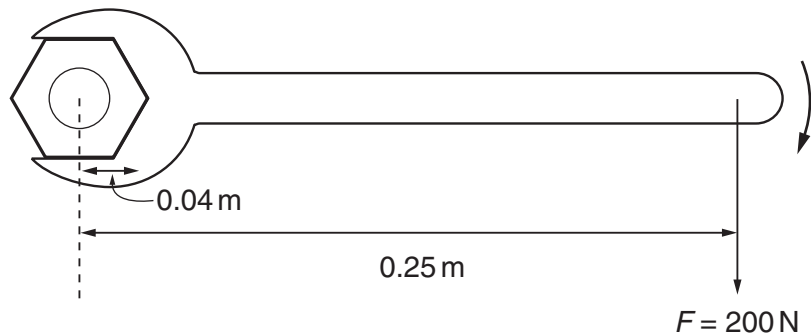**13** A spanner is used to tighten a nut as shown.

A force *F* is applied at right-angles to the spanner at a distance of 0.25 m from the centre of the nut. When the nut is fully tightened, the applied force is 200 N.

What is the resistive torque, in an anticlockwise direction, preventing further tightening?

A 8 N m

B 25 N m

C 50 N m

D 800 N m