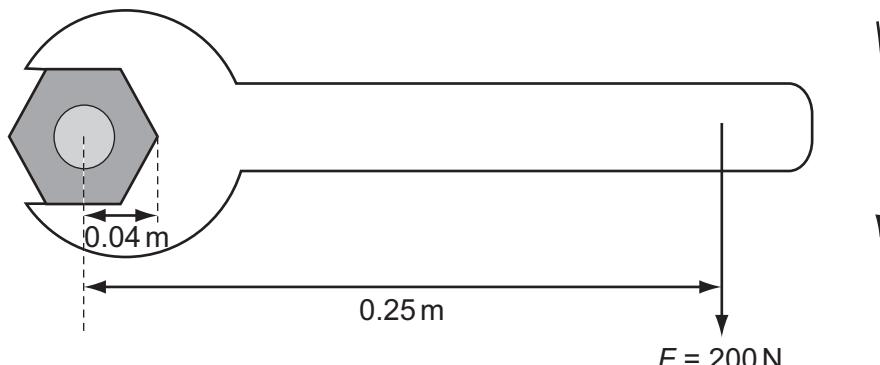


12 A spanner is used to tighten a nut as shown.



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** 42 N m
- C** 50 N m
- D** 1250 N m

Space for working