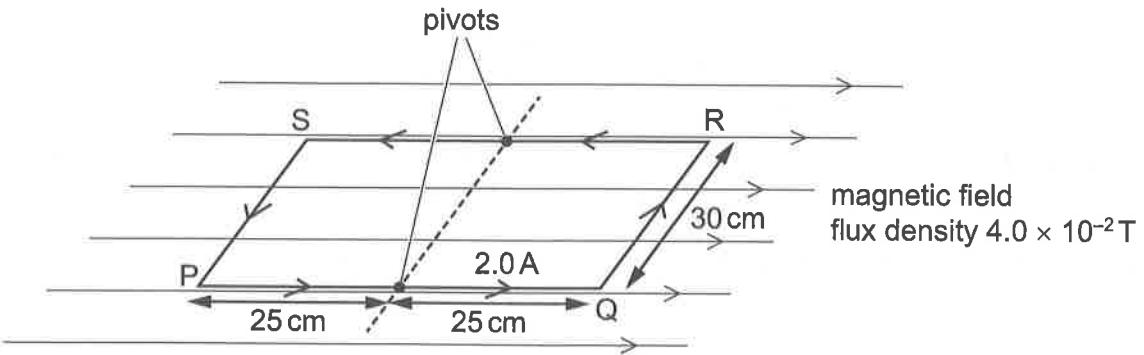


14 The diagram shows a horizontal, rectangular coil PQRS.



The coil consists of a single turn and rests on pivots that are at the midpoints of PQ and RS.

There is a current of 2.0 A in the coil. There is a horizontal, uniform magnetic field of flux density $4.0 \times 10^{-2}\text{ T}$ parallel to PQ.

What is the magnitude of the torque acting on the coil?

- A 0 Nm
- B $6.0 \times 10^{-3}\text{ Nm}$
- C $1.2 \times 10^{-2}\text{ Nm}$
- D $2.4 \times 10^{-2}\text{ Nm}$