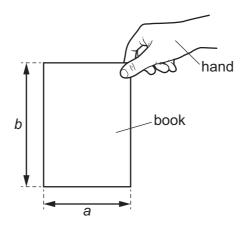
14 A book of weight W has a rectangular shape and is of uniform thickness. The book is held in a vertical plane so that the longer sides of the book are vertical, as shown.



Which expression gives the approximate torque exerted by the hand on the book?

- A $\frac{Wa}{2}$ clockwise
- **B** $\frac{Wb}{2}$ anticlockwise
- C Wa clockwise
- **D** Wb anticlockwise
- **15** The derivation of the pressure equation $\Delta p = \rho g \Delta h$ uses a number of relationships between quantities.

Which relationship is **not** used in the derivation of this equation?

- **A** density = $\frac{\text{mass}}{\text{volume}}$
- $\textbf{B} \quad \text{potential energy = mass} \times \text{acceleration of free fall} \times \text{height}$
- **C** pressure = $\frac{\text{force}}{\text{area}}$
- **D** weight = mass \times acceleration of free fall