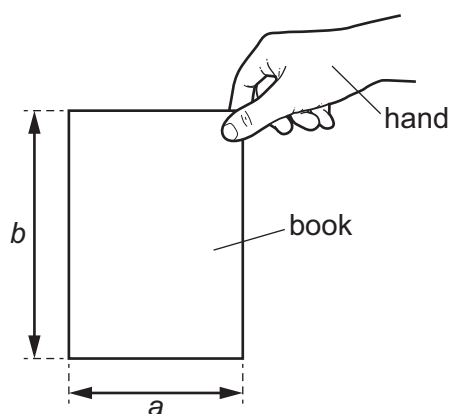


- 14 A book of weight W has a rectangular shape and is of uniform thickness. The book is held in a vertical plane so that the longer sides of the book are vertical, as shown.



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