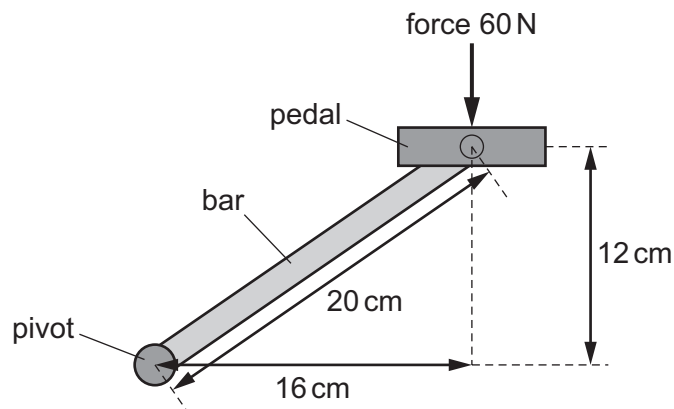**14** A bicycle pedal is connected to a pivot by a metal bar, as shown.

The force on the pedal is 60 N downwards.

What is the moment of this force about the pivot?

A 7.2 N m **B** 9.6 N m **C** 12 N m **D** 1200 N m

15 For a change in depth Δh in a liquid of density ρ, the change in pressure Δp is given by $\Delta p = \Delta h \rho g$ where g is the acceleration of free fall.

What is the equation, or principle of physics, used in the derivation of this formula?

A atmospheric pressure decreases with height

B change in gravitational potential energy = mass $\times g\Delta h$

C $\rho = \dfrac{\text{mass}}{\text{volume}}$

D the density of a fluid increases with depth