

- 3** Which formula could be correct for the speed  $v$  of ocean waves in terms of the density  $\rho$  of sea-water, the acceleration of free fall  $g$ , the depth  $h$  of the ocean and the wavelength  $\lambda$ ?

**A**  $v = \sqrt{g\lambda}$

**B**  $v = \sqrt{\frac{g}{h}}$

**C**  $v = \sqrt{\rho gh}$

**D**  $v = \sqrt{\frac{g}{\rho}}$