

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

A  $\sqrt{g\lambda}$

B  $\sqrt{\frac{g}{h}}$

C  $\sqrt{\rho gh}$

D  $\sqrt{\frac{g}{\rho}}$