

17 An earthquake-monitoring station records the arrival of 16 complete wavelengths of an earthquake wave in a time of 20 s.

The speed of the earthquake wave is 6.0 km/s.

What is the wavelength of the earthquake wave?

- A** $1.3 \times 10^{-4} \text{ m}$ **B** $2.1 \times 10^{-4} \text{ m}$ **C** $4.8 \times 10^3 \text{ m}$ **D** $7.5 \times 10^3 \text{ m}$