

- 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** 1.3×10^{-4} m **B** 2.1×10^{-4} m **C** 4.8×10^3 m **D** 7.5×10^3 m

- 16** Which statement about waves is correct?

- A** Waves do not transfer either energy or matter.
B Waves transfer both energy and matter.
C Waves transfer energy without transferring matter.
D Waves transfer matter without transferring energy.

- 18** Which quantities relating to a wave on the surface of water can **both** be measured in metres?

- A** amplitude and frequency
B amplitude and wavelength
C amplitude and wave speed
D frequency and wavelength