

**22** The period of an electromagnetic wave is 1.0 ns.

What are the frequency and wavelength of the wave?

	frequency / Hz	wavelength / m
<b>A</b>	1.0	$3.0 \times 10^8$
<b>B</b>	$1.0 \times 10^6$	300
<b>C</b>	$1.0 \times 10^9$	0.30
<b>D</b>	$1.0 \times 10^{12}$	$3.0 \times 10^{-4}$

**23** Which statement about progressive longitudinal waves is not correct?