

27 The period of an electromagnetic wave is 1.0 ns.

What are the frequency and wavelength of the wave?

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

28 X and Y are two points on the surface of water in a ripple tank. A source of waves of constant