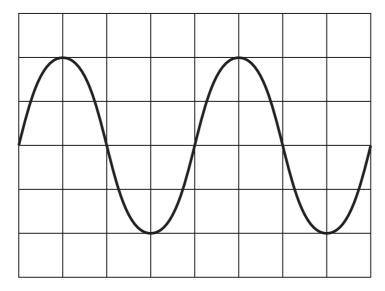
3 (a) Which statement about sound waves is correct?

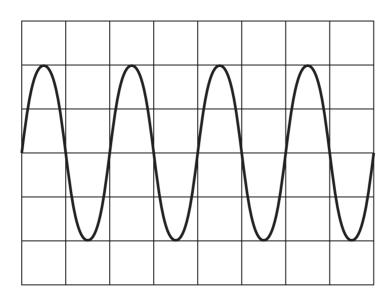
(1)

- A sound waves cannot be reflected
- **B** sound waves are electromagnetic
- C sound waves are longitudinal
- **D** sound waves are transverse
- (b) A microphone is connected to a data logger, which displays each sound wave as a graph.

The diagrams show the graphs for two different sound waves.



Sound wave P



Sound wave Q

The graphs have the same scales.

In the horizontal direction: 1 square = 0.001 s

		(1)
A larger than the amplitude of sound	wave P	
B smaller than the amplitude of soun	d wave P	
lacktriangle the same as the amplitude of sound	d wave P	
D zero		
(ii) The frequency of sound wave P is 250 H	Hz.	
Find the time period of sound wave P.		(1)
(iii) Find the frequency of sound wave Q.	time period =	s (1)
	frequency =(Total for Questic	