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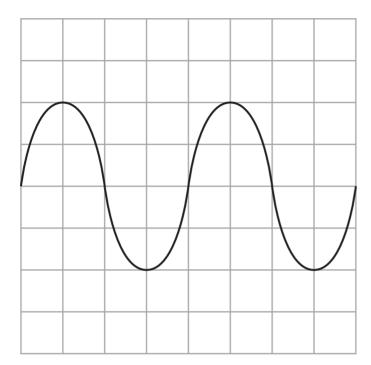
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3	This question is about sound waves.	
	(a) Describe an experiment to measure the speed of sound in air.	
	You may draw a diagram to help your answer.	(5)
		(5)
•••••		
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(b) An oscilloscope can be used to determine the frequency of a sound wave.

The diagram shows an oscilloscope trace of a sound wave.



Oscilloscope settings

y direction: 1 square = 1V

x direction: 1 square = 0.25 ms

(i) Calculate the period of this sound wave.

(3)

(ii) Calculate the frequency of this sound wave.

(2)

frequency =Hz

(Total for Question 3 = 10 marks)

