

GCSE Physics B (Twenty First Century Science)

J259/01 Breadth in Physics (Foundation Tier)

Question Set 1

Multiple Choice Questions

- **1** Jamal is listening to the radio.
 - (a) He can hear a musical instrument playing a steady note.

What type of wave is the **sound** that Jamal hears? Put a ring around the correct answer.

electromagnetic longitudinal radio transverse [1]

(b) The sound waves that Jamal hears have a frequency of 400 Hz and a wavelength of 0.84 m.

Calculate the speed of the sound waves.

Use the equation: wave speed = frequency × wavelength

Wave speed =
$$340(28f)$$
 m/s [2]

Total Marks for Question Set 1: 3



OCR is committed to seeking permission to reproduce all third-party content that it uses in its assessment materials. OCR has attempted to identify and contact all copyright holders whose work is used in this paper. To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced in the OCR Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download from our public website (www.ocr.org.uk) after the live examination series.

If OCR has unwittingly failed to correctly acknowledge or clear any third-party content in this assessment material, OCR will be happy to correct its mistake at the earliest possible opportunity.

For queries or further information please contact The OCR Copyright Team, The Triangle Building, Shaftesbury Road, Cambridge CB2 8EA.

OCR is part of the Cambridge Assessment Group; Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge