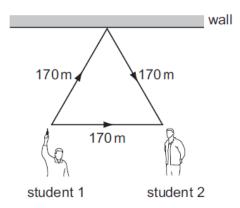
Sound - 2022 June IGCSE 0625

1. June/2022/Paper_13/No.25

Student 1 and student 2 stand 170 m apart as shown.

Student 1 fires a starting pistol. Student 2 hears the sound twice, once by the direct route and once from the reflection from the wall.



The speed of sound in air is 340 m/s.

What is the interval between hearing the two sounds?

- **A** 0.25s
- **B** 0.50s
- **C** 1.0 s
- D 2.0 s

2. June/2022/Paper 21/No.22

A sound wave is created by a loudspeaker that vibrates backwards and forwards 96 000 times per minute.

The speed of sound is 320 m/s.

What is the wavelength of the sound wave?

- **A** 0.20 m
- **B** 5.0 m
- **C** 300 m
- **D** 18000 m

3.		/2022/Paper_42/No.5(a) und waves are longitudinal and electromagnetic waves are transverse.		
	(a)	A so	A sound wave used for a medical examination has a frequency of 1.5 MHz.	
		(i)	State and explain what type of sound wave this is.	
			[2]	
		(ii)	The wave travels through soft human tissue at a speed of 1.3 km/s.	
			Calculate the wavelength of the wave in soft human tissue.	
			wavelength =	