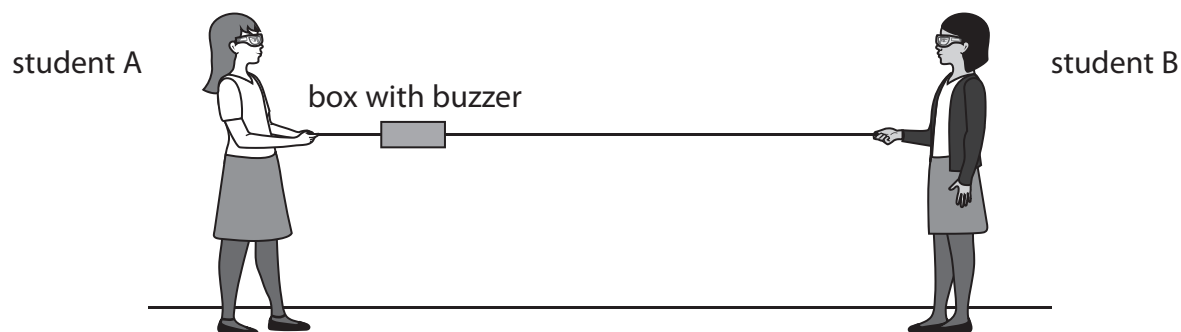


- 9 The diagram shows two students holding a piece of string with a box attached. The box has a buzzer inside and can move along the string.



The buzzer in the box emits a loud sound of constant frequency.

The box moves **away** from student A at a constant speed.

Explain why the sound heard by student A has a different frequency to the sound emitted by the buzzer.

(5)

(Total for Question 9 = 5 marks)

