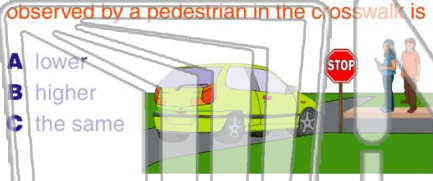




Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 The driver of a car blows the horn as the car approaches a crosswalk. Compared to the **actual pitch** of the horn, **the pitch observed by a pedestrian in the crosswalk is**

- A lower
- B higher
- C the same

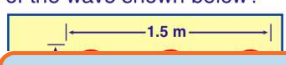


2 What **type of wave** is **sound** traveling in water?

- A torsional
- B transverse
- C elliptical
- D longitudinal



3 What are the **amplitude** and **wavelength** of the wave shown below?



4 An opera singer's voice is able to break a thin crystal glass when the **singer's voice** and the **vibrating glass** have the **same**

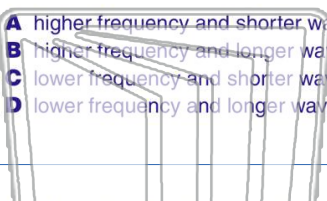


## PREVIEW

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7 medium. Compared to the frequency and wavelength of the **emitted sound**, the **observer** would detect waves with a

- A higher frequency and shorter wavelength
- B higher frequency and longer wavelength
- C lower frequency and shorter wavelength
- D lower frequency and longer wavelength



The **frequency** of these waves is

- A 0.20 Hz
- B 5.0 Hz
- C 16 Hz
- D 80 Hz



9 An electric guitar is generating a sound of **constant frequency**. An increase in which sound wave characteristic would result in an **increase in loudness**?

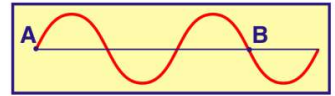
- A speed
- B period
- C wavelength
- D amplitude



10 The diagram below shows two points, A and B, on a wave train.

How many wavelengths **separate** point A and point B?

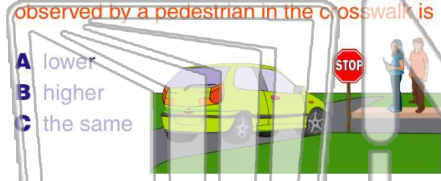
- A 1.0
- B 1.5
- C 3.0
- D 0.75





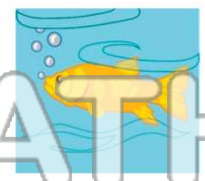
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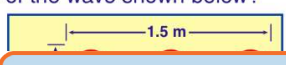
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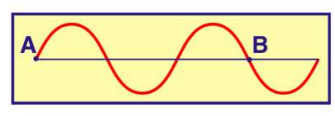
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