

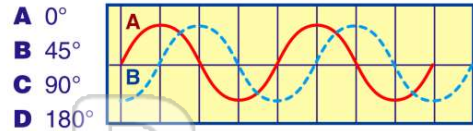


Name _____ Class _____ Date _____

- 1 Which phrase best describes a **periodic wave**?
- A a single pulse traveling at constant speed
 - B a series of pulses at irregular intervals
 - C a series of pulses at regular intervals
 - D a single pulse traveling at different speeds in the same medium

- 3 The **hertz** is a unit that **describes the number of**
- A seconds it takes to complete one cycle of a wave
 - B cycles of a wave completed in one second
 - C points that are in phase along one

- 2 The diagram below shows two waves, A and B. The **phase difference** between A and B is

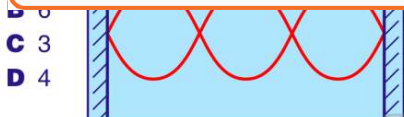


- 4 As a wave travels between two points in a **medium**, the wave **transfers**
- A energy, only
 - B mass, only
 - C both energy and mass
 - D neither energy nor mass



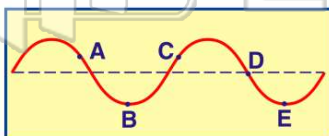
PREVIEW

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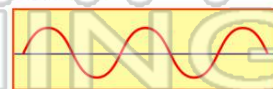


- B refraction
 - C diffraction
 - D polarization
-

- 9 The diagram below represents a **periodic wave**. Which two points on the wave are **in phase**?
- A A and C
 - B B and D
 - C A and D
 - D B and E



- 10 A **periodic wave** transfers
- A energy, only
 - B mass, only
 - C both energy and mass
 - D neither energy nor mass





ANSWER KEY

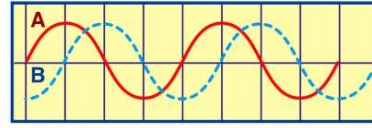
Which phrase best describes a **periodic wave**?

- A** a single pulse traveling at constant speed
- B** a series of pulses at irregular intervals
- C** a series of pulses at regular intervals
- D** a single pulse traveling at different speeds in the same medium

(C)

The diagram below shows two waves, A and B. The **phase difference** between A and B is

- A** 0°
- B** 45°
- C** 90°
- D** 180°



(C)

The **hertz** is a unit that **describes the number of**

- A** seconds it takes to complete one cycle of a wave
- B** cycles of a wave completed in one second
- C** points that are in phase along one meter of a wave
- D** points that are out of phase along one meter of a wave

(b)

As a **wave travels between two points in a medium**, the wave **transfers**

- A** energy, only
- B** mass, only
- C** both energy and mass
- D** neither energy nor mass

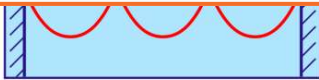
(a)



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D 4



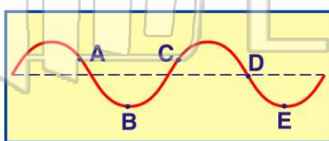
D polarization



The diagram below represents a **periodic wave**.

Which two points on the wave are **in phase**?

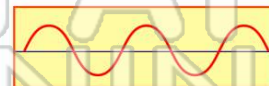
- A** A and C
- B** B and D
- C** A and D
- D** B and E



(d)

A **periodic wave transfers**

- A** energy, only
- B** mass, only
- C** both energy and mass
- D** neither energy nor mass



(a)