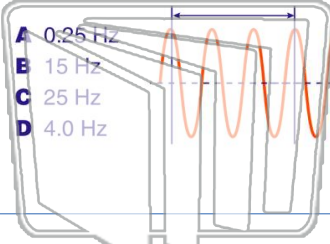


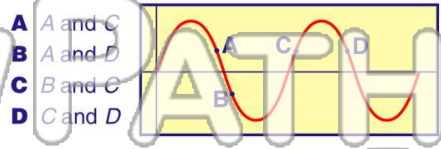


Name _____ Class _____ Date _____

1 A motor is used to produce 4.0 waves each second in a string. What is the frequency of the waves?



2 The diagram below shows a periodic wave. Which points are in phase with each other?



3 A surfacing whale in an aquarium produces water wave crests having an amplitude of 1.2 meters every 0.40 second. If the water wave travels at 4.5 meters per second, the

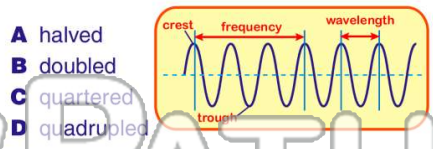
4 The diagram below shows a standing wave. Point A on the standing wave is
A a node resulting from



PREVIEW

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7
A being absorbed at the boundary with a new medium
B refracting at a boundary with a new medium
C diffracting around a barrier
D reflecting from a barrier



9 A source of waves and an observer are moving relative to each other. The observer will detect a steadily increasing frequency if
A he moves toward the source at a constant speed
B the source moves away from him at a constant speed
C he accelerates toward the source
D the source accelerates away from him



10 If the amplitude of a wave traveling in a rope is doubled, the speed of the wave in the rope will
A decrease
B increase
C remain the same

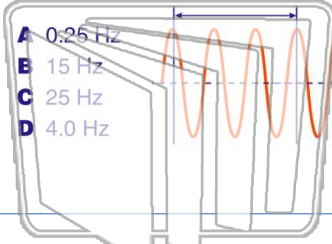




Name _____ Class _____ Date _____

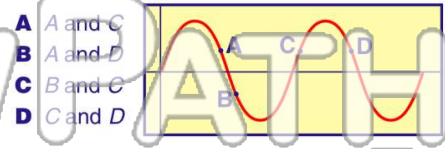
1

A motor is used to produce **4.0 waves each second** in a string. What is the **frequency** of the waves?



2

The diagram below shows a **periodic wave**. Which points are **in phase** with each other?



- A A and C
- B A and D
- C B and C
- D C and D

3

A surfacing whale in an aquarium produces water wave crests having an **amplitude of 1.2 meters every 0.40 second**. If the water wave travels at **4.5 meters per second**, the

4

The diagram below shows a **standing wave**. **Point A** on the standing wave is

A a node resulting from

5

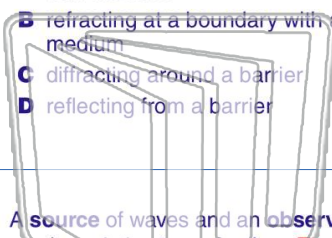


PREVIEW

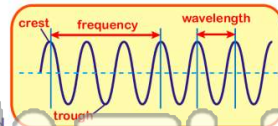
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7

- A being absorbed at the boundary with a new medium
- B refracting at a boundary with a new medium
- C diffracting around a barrier
- D reflecting from a barrier



- A halved
- B doubled
- C quartered
- D quadrupled



9

A **source of waves** and an **observer** are moving relative to each other. **The observer will detect a steadily increasing frequency if**

- A he moves toward the source at a constant speed
- B the source moves away from him at a constant speed
- C he accelerates toward the source
- D the source accelerates away from him



10

If the **amplitude** of a wave traveling in a rope is **doubled**, the **speed** of the wave in the rope will

- A decrease
- B increase
- C remain the same

