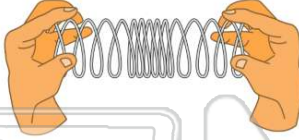




Name _____ Class _____ Date _____

1 In the picture below, the type of **energy used** to **make** the wave is _____.

- A seismic
- B chemical
- C physical
- D mechanical



2 What is the relationship of a **tsunami** to an **earthquake**?

- A they occur exactly at the same time
- B the earthquake occurs before the tsunami
- C the tsunami occurs before the earthquake
- D earthquakes and tsunamis are not related

3 The **sound** of a violin is caused by _____.

- A vibrations of the hand
- B vibrations of the violin handle
- C vibrations of the



4 When a student plays a trumpet, sound waves are made. The **medium** for these waves is _____.

- A air
- B the trumpet
- C the student playing it



5



PREVIEW

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7

- A 10 m
- B 12 m
- C 40 m
- D 200 m

$$\lambda = \frac{v}{f}$$

- A true
- B false



9

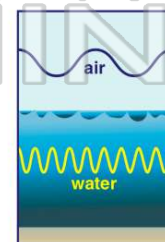
Long bridges have been known to collapse when there is too much **traffic** on them. What is one **possible cause** of these collapses?

- A the traffic is giving off air pollutants
- B the traffic is causing air to move around
- C the traffic is causing vibrations in the bridge
- D the traffic was going too slow

10 All materials conduct vibrations at the **same rate**.

True or false?

- A true
- B false

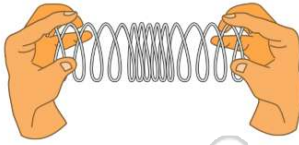




ANSWER KEY

In the picture below, the type of **energy used** to **make** the wave is _____.

- A seismic
- B chemical
- C physical
- D mechanical



(d)

What is the relationship of a **tsunami** to an **earthquake**?

- A they occur exactly at the same time
- B the earthquake occurs before the tsunami
- C the tsunami occurs before the earthquake
- D earthquakes and tsunamis are not related

(b)

The **sound** of a violin is caused by _____.

- A vibrations of the hand
- B vibrations of the violin handle
- C vibrations of the violin string



(c)

When a student plays a trumpet, sound waves are made. The **medium** for these waves is _____.

- A air
- B the trumpet
- C the student playing it
- D caused by vibrations



(a)



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- C 40 m
- D 200 m



D false



Long bridges have been known to collapse when there is too much **traffic** on them. What is one **possible cause** of these collapses?

- A the traffic is giving off air pollutants
- B the traffic is causing air to move around
- C the traffic is causing vibrations in the bridge
- D the traffic was going too slow

(c)

All materials conduct vibrations at the **same rate**.

True or false?

- A true
- B false

(b)

