Waves: Wave Basics, Sound, and Light — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A wave has frequency 25 hertz and wavelength 2 metres. Its speed, in metres per second, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Sound travels as a**

A. transverse wave only

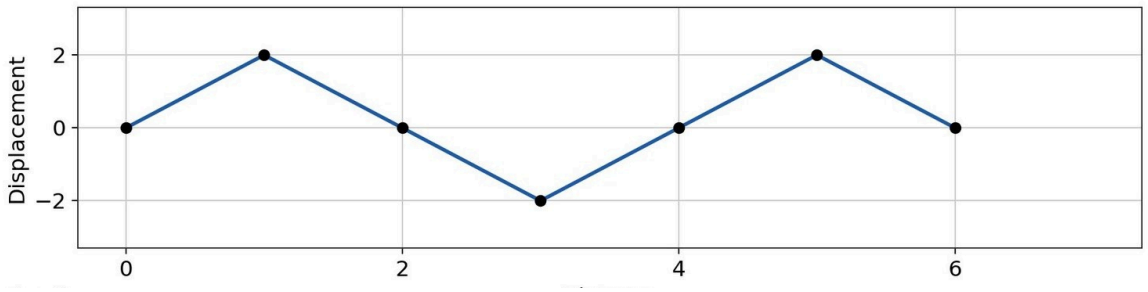
B. surface wave only

C. standing wave only

D. longitudinal wave

Understand It with Pulse | Flag a mistake

3 **The graph shows a wave repeating every 4 units of distance. The wavelength of the wave is**



A 2

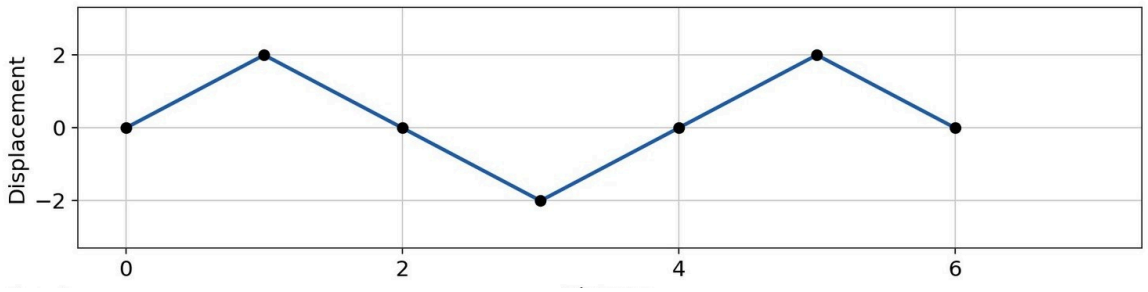
B 4

C 8

D 1

Understand It with Pulse | Flag a mistake

4 **The graph shows a wave with crests 2 units high and troughs 2 units low. The amplitude of the wave is**



A 2

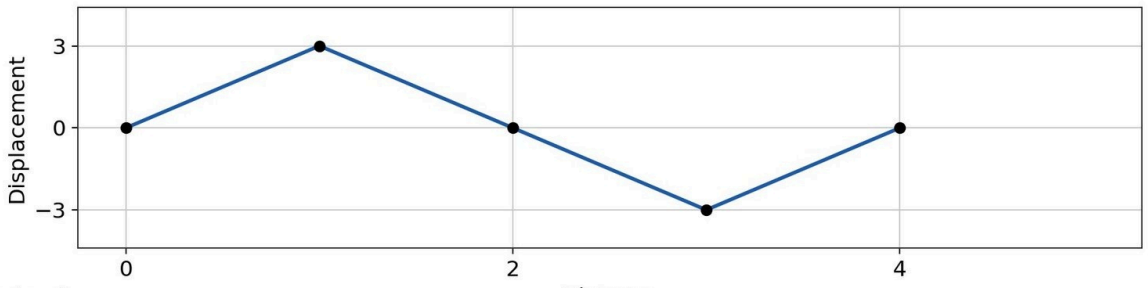
B 4

C 1

D 6

Understand It with Pulse | Flag a mistake

5 **The graph shows a wave with crests 3 units high. The amplitude of the wave is**



A 6

B 1.5

C 3

D 4

Understand It with Pulse | Flag a mistake

6 **The speed of light in a vacuum is about**

A 343 metres per second

B 3×10^8 metres per second

C 1500 metres per second

D 300 metres per second

Understand It with Pulse | Flag a mistake

7 **The speed of sound in air is about**

A 343 metres per second

B 3×10^8 metres per second

C 1500 metres per second in air

D 100 metres per second

Understand It with Pulse | Flag a mistake

8 **Wave speed equals frequency times**

A amplitude

B period

C height

D wavelength

Understand It with Pulse | Flag a mistake

9 **A wave has frequency 8 hertz and wavelength 6 metres. Its speed, in metres per second, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **A wave has frequency 30 hertz and wavelength 3 metres. Its speed, in metres per second, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	50	**5.**	C	**9.**	48
2.	D	**6.**	B	**10.**	90
3.	B	**7.**	A		
4.	A	**8.**	D		

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