NOVA SCOTIA PHYSICS 11 · UNIT E · 10 QUESTIONS

Simple Harmonic Motion, Waves, Light and Sound — 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 **A wave has frequency 100 hertz. Its period, in seconds, is**

ANSWER _____

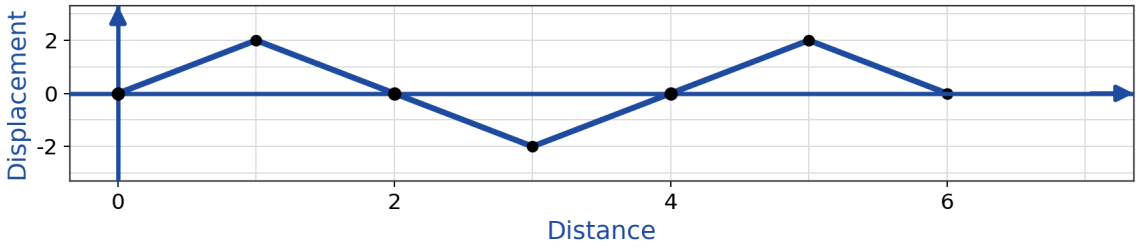
Understand It with Pulse | Flag a mistake

3 **A wave has wavelength 10 metres and speed 50 metres per second. Its frequency, in hertz, is**

ANSWER _____

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 4

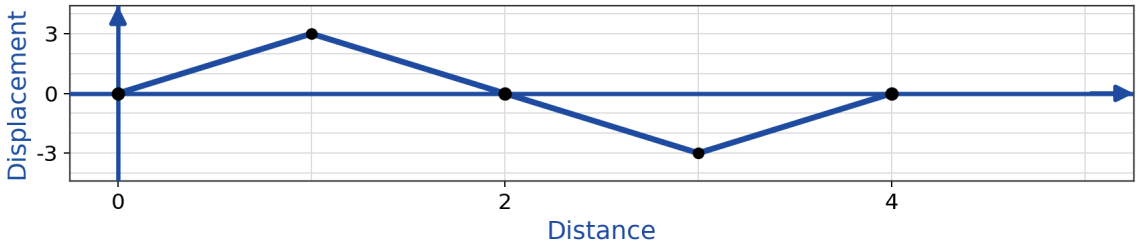
B 1

C 2

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** 3
- **C** 1.5
- **D** 4

Understand It with Pulse | Flag a mistake

6 **The speed of sound in water is greater than in air because water is**

- **A** denser and less compressible in effect
- **B** hotter always
- **C** lighter
- **D** clearer

Understand It with Pulse | Flag a mistake

7 **Wave speed equals frequency times**

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

Understand It with Pulse | Flag a mistake

8 **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

9 **A wave has frequency 200 hertz. Its period, in seconds, 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
2. 0.01
3. 5
4. C
5. B
6. A
7. A
8. 48
9. 0.005
10. 90

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