NUNAVUT PHYSICS 20 · UNIT D · 5 QUESTIONS

Oscillatory Motion & Mechanical Waves — Practice Test

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1 **Ice cubes floats in a clear glass of water. A buoy floating on water rises and falls as waves pass under it. The buoy completes 15 full oscillations in 30 s. The period of the waves is**



A 0.50 s

B 15 s

C 2.0 s

D 450 s

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2 **A mass oscillating on a spring is released from rest at its maximum displacement. As the mass passes through the equilibrium position, it has**

- **A** its maximum speed
- **B** its maximum acceleration
- **C** zero kinetic energy
- **D** its maximum restoring force

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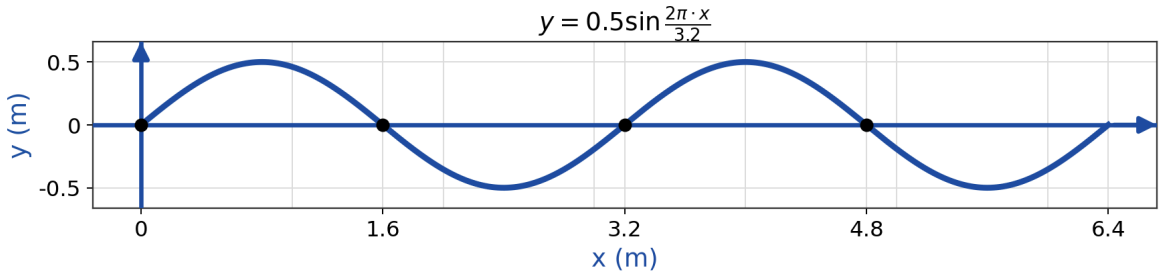
3 **The graph shows ocean waves. The period of the waves is 0.80 s. The speed of the waves, to the nearest tenth, is ____ m/s.**



ANSWER

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4 **Which of the following statements about mechanical waves is correct?**

A They can travel through a vacuum.

B They transfer matter from one place to another.

C They always travel at the speed of light.

D They require a material medium in order to travel.

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5 **The length of a simple pendulum is increased to four times its original value. The period of the pendulum**

A doubles

B quadruples

C is cut in half

D does not change

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ANSWER KEY

1. C
2. A
3. 4
4. D
5. A

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