NOVA SCOTIA SCIENCE 10 · UNIT C · 10 QUESTIONS

Motion — 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 **On a distance time graph a steeper line means the object is moving**

- A faster
- B slower
- C backwards
- D upwards only

Understand It with Pulse | Flag a mistake

2 **The SI unit for speed is**

- A kilometres only
- B metres per second
- C seconds only
- D metres only

Understand It with Pulse | Flag a mistake

3 **Acceleration is best described as a change in**

A mass over time

B distance only

C velocity over time

D direction only

Understand It with Pulse | Flag a mistake

4 **An object moving in a circle at steady speed is accelerating because its**

A mass keeps changing

B speed is zero

C time stops

D direction keeps changing

Understand It with Pulse | Flag a mistake

5 A speed of 36 kilometres per hour equals in metres per second

- **A** 10
- **B** 3.6
- **C** 36
- **D** 100

Understand It with Pulse | Flag a mistake

6 An object travels 360 metres in 12 seconds. Its speed in metres per second is

ANSWER _____

Understand It with Pulse | Flag a mistake

7 An object moves at 9 metres per second for 11 seconds. The distance in metres is

ANSWER _____

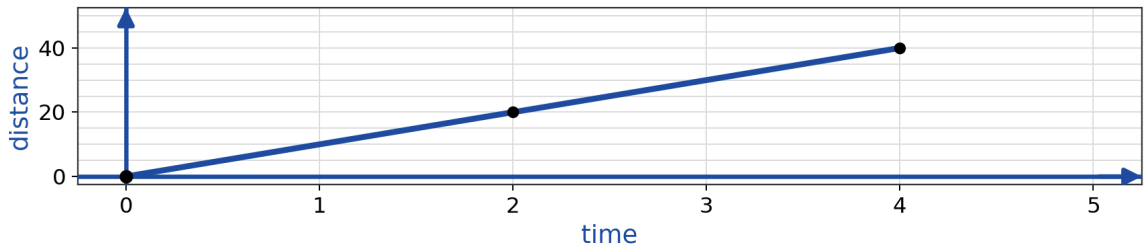
Understand It with Pulse | Flag a mistake

8 **The area under a speed time graph gives**

- **A** acceleration only
- **B** distance travelled
- **C** mass only
- **D** force only

Understand It with Pulse | Flag a mistake

9 **The distance time graph shows a straight line from the origin. The motion is best described as**



- **A** standing still
- **B** speeding up steadily
- **C** steady speed
- **D** slowing down

Understand It with Pulse | Flag a mistake

10 **The distance time graph rises from 0 to 40 metres in 4 seconds. The speed in metres per second is**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. A
2. B
3. C
4. D
5. A
6. 30
7. 99
8. B
9. C
10. 10

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