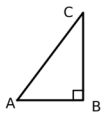
NORTHWEST TERRITORIES PHYSICS 12 (MPH--12) · UNIT A · 5 QUESTIONS

Vectors and Kinematics — 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.

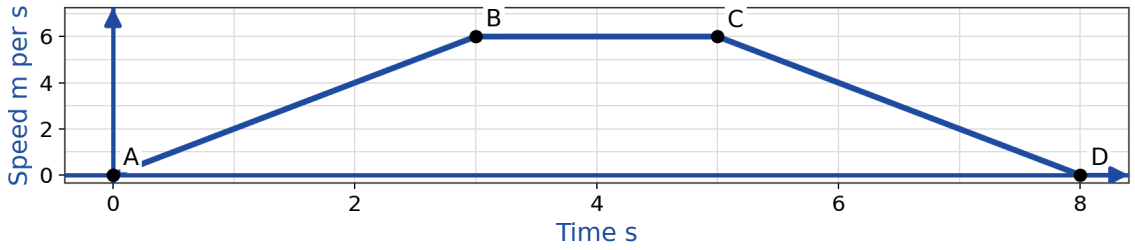
1 **The diagram shows a vector with a horizontal side of 6 m and a vertical side of 8 m. The magnitude of the vector, in metres, is**



- **A** 6
- **B** 8
- **C** 10
- **D** 14

Understand It with Pulse | Flag a mistake

2 **The graph shows speed against time. The acceleration during the first 3 s, in metres per second squared, is**



- **A** 0
- **B** 2
- **C** 3
- **D** 6

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3

Red octagonal STOP sign on a metal pole against a pale blue sky, sign large in frame, no people. The sign face carries the word STOP (the real-world object); the image shows the eight-sided shape, not the answer word (octagon). An object starts at 4 m per s and accelerates at 2 m per s squared for 3 s. Its displacement, in metres, is



ANSWER

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Flag a mistake

4 **An object starts at 3 m per s and accelerates at 4 m per s squared for 5 s. Its final speed, in metres per second, is**

ANSWER _____

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5 **A stone is dropped from rest. Using g = 9.8 m per s squared, the distance it falls in 3 s, in metres, is**

ANSWER _____

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ANSWER KEY

1. C
2. B
3. 21
4. 23
5. 44.1

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