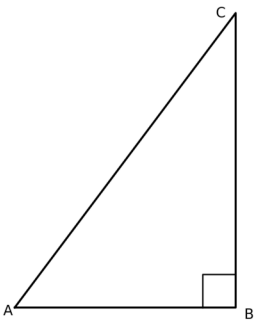
YUKON PHYSICS 12 (MPH--12) · UNIT A · 5 QUESTIONS

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.

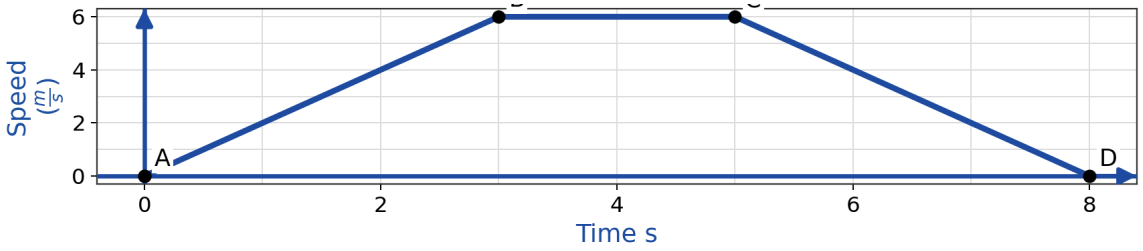
1 **The diagram shows a vector with a horizontal side of 6 m and a vertical side of 8 m. The magnitude of the vector, in metres, is**



- **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 $\frac{m}{s^2}$, is**



A 0

B 2

C 3

D 6

Understand It with Pulse | Flag a mistake

3 An object starts at 4 $\frac{m}{s}$ and accelerates at 2 $\frac{m}{s^2}$ for 3 s. Its displacement, in metres, is



ANSWER

Understand It with Pulse | Flag a mistake

4 An object starts at 3 $\frac{m}{s}$ and accelerates at 4 $\frac{m}{s^2}$ for 5 s. Its final speed, in $\frac{m}{s}$, is

ANSWER

Understand It with Pulse | Flag a mistake

5 **A stone is dropped from rest. Using $g = 9.8\ \frac{m}{s^2}$, the distance it falls in 3 s, in metres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

© 2026 Brett Robbins. All Rights Reserved.