NORTHWEST TERRITORIES PHYSICS 11 (MPH--11) · UNIT A · 10 QUESTIONS

Kinematics: Describing 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 **Displacement components are 8 m east and 6 m north. The magnitude of the displacement, in metres, is**

A 6

B 8

C 10

D 14

Understand It with Pulse | Flag a mistake

2 **On a velocity time graph, the area under the line gives**

A velocity

B displacement

C acceleration

D force

Understand It with Pulse | Flag a mistake

3 **A stone is dropped from rest. Using g = 9.8 m per s squared, its speed after 3 s, in metres per second, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **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 _____

Understand It with Pulse | Flag a mistake

5 **For a projectile with no air resistance, the vertical acceleration is**

- A zero
- B 9.8 m per s squared upward
- C 9.8 m per s squared downward
- D changing all the time

Understand It with Pulse | Flag a mistake

6 **A marble rolls horizontally at 5 m per s while falling for 3 s. The horizontal distance covered, in metres, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A displacement time graph is a flat horizontal line. The object is**

- **A** speeding up
- **B** moving steadily
- **C** slowing down
- **D** at rest

Understand It with Pulse | Flag a mistake

8 **A cart starts from rest, accelerates at 5 m per s squared, and covers 10 m. The final speed, in metres per second, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **A car speedometer reading shows the car speed at**

- **A** the average over the trip
- **B** that instant
- **C** the start of the trip
- **D** the end of the trip

Understand It with Pulse | Flag a mistake

10 **A walker goes 25 m west, then 40 m east. The magnitude of the displacement, in metres, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. C
2. B
3. 29.4
4. 44.1
5. C
6. 15
7. D
8. 10
9. B
10. 15

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