NOVA SCOTIA ADVANCED PHYSICS 11 · UNIT A · 10 QUESTIONS

Displacement, Velocity and Acceleration — 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 **Projectile motion vertically has acceleration equal to gravity and horizontal velocity that is**

A increasing

B decreasing to zero

C zero

D constant ignoring air resistance

Understand It with Pulse | Flag a mistake

2 **Reaction time error in hand timing is mainly a source of**

A random error

B systematic error only

C zero error

D parallax only

Understand It with Pulse | Flag a mistake

3 **Relative velocity of an object depends on the motion of the**

A object mass

B observer frame

C object colour

D season

Understand It with Pulse | Flag a mistake

4 **Systematic error in a timing experiment shifts results in a**

A consistent direction

B random direction each time

C zero direction

D large direction only

Understand It with Pulse | Flag a mistake

5 **Velocity decreases steadily over time. The acceleration is**

A positive and constant

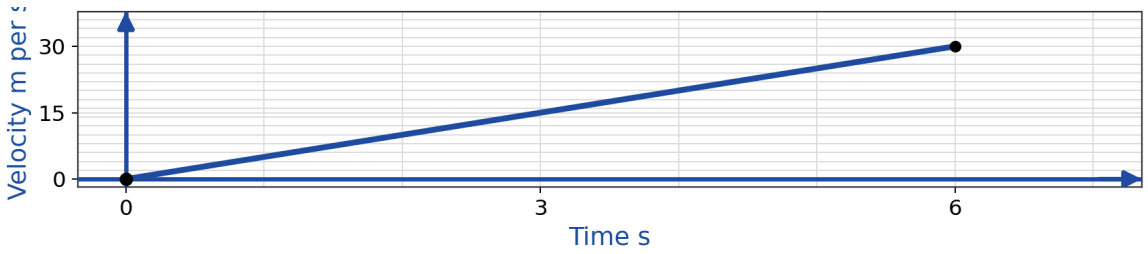
B zero

C negative and constant

D increasing

Understand It with Pulse | Flag a mistake

6 **The graph shows velocity against time as a line from 0 to 30 in 6 seconds. The acceleration, in metres per second squared, is**



A 6

B 30

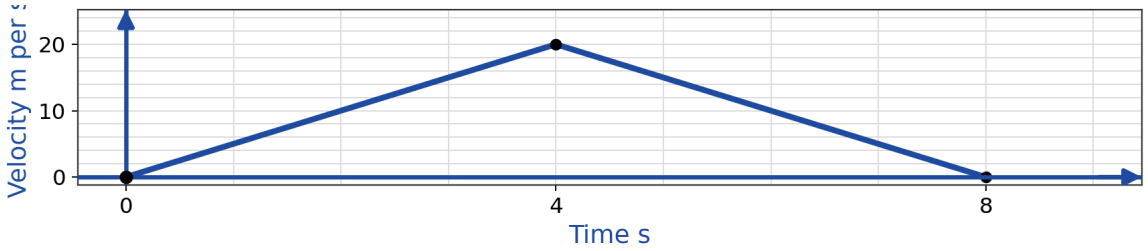
C 180

D 5

Understand It with Pulse

Flag a mistake

7 **The graph shows velocity rising from 0 to 20 then falling to $\frac{0}{8}$ seconds . The total displacement , in metres , is**



A 40

B 80

C 160

D 20

Understand It with Pulse | Flag a mistake

8 **Uncertainty in a measured time can be reduced by timing**

A one interval only

B a single dot

C multiple oscillations or intervals

D a guess

Understand It with Pulse | Flag a mistake

9 **Use g = 9.8 metres per second squared . An object dropped from rest falls for 4 seconds . Its speed then , in metres per second , is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **Use g = 9.8 metres per second squared . An object dropped from rest falls for 5 seconds . The distance fallen , in metres , is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. D
2. A
3. B
4. A
5. C
6. D
7. B
8. C
9. 39.2
10. 122.5

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