CONNECTICUT PHYSICS · UNIT 1 · 10 QUESTIONS

Kinematics and Dynamics — 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 **Newtons first law states that an object at rest stays at rest unless acted on by a**

- A balanced force
- B friction only
- C net force
- D gravity only

Understand It with Pulse | Flag a mistake

2 **Newtons second law relates net force, mass, and**

- A speed
- B distance
- C time
- D acceleration

Understand It with Pulse | Flag a mistake

3 **Newtons third law states that forces always occur in**

A equal and opposite pairs

B the same direction

C one direction only

D random directions

Understand It with Pulse | Flag a mistake

4 **The unit of force is the**

A joule

B newton

C watt

D pascal

Understand It with Pulse | Flag a mistake

5 **Acceleration is the rate of change of**

A distance

B mass

C velocity

D force

Understand It with Pulse | Flag a mistake

6 **Average speed for 200 meters in 10 seconds is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **Average speed for 150 meters in 5 seconds is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **Average speed for 80 meters in 4 seconds is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **Average speed for 300 meters in 6 seconds is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **Average speed for 120 meters in 3 seconds is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	C	**5.**	C	**9.**	50
2.	D	**6.**	20	**10.**	40
3.	A	**7.**	30		
4.	B	**8.**	20		

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