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

# Dynamics: Forces and Motion — Practice Test

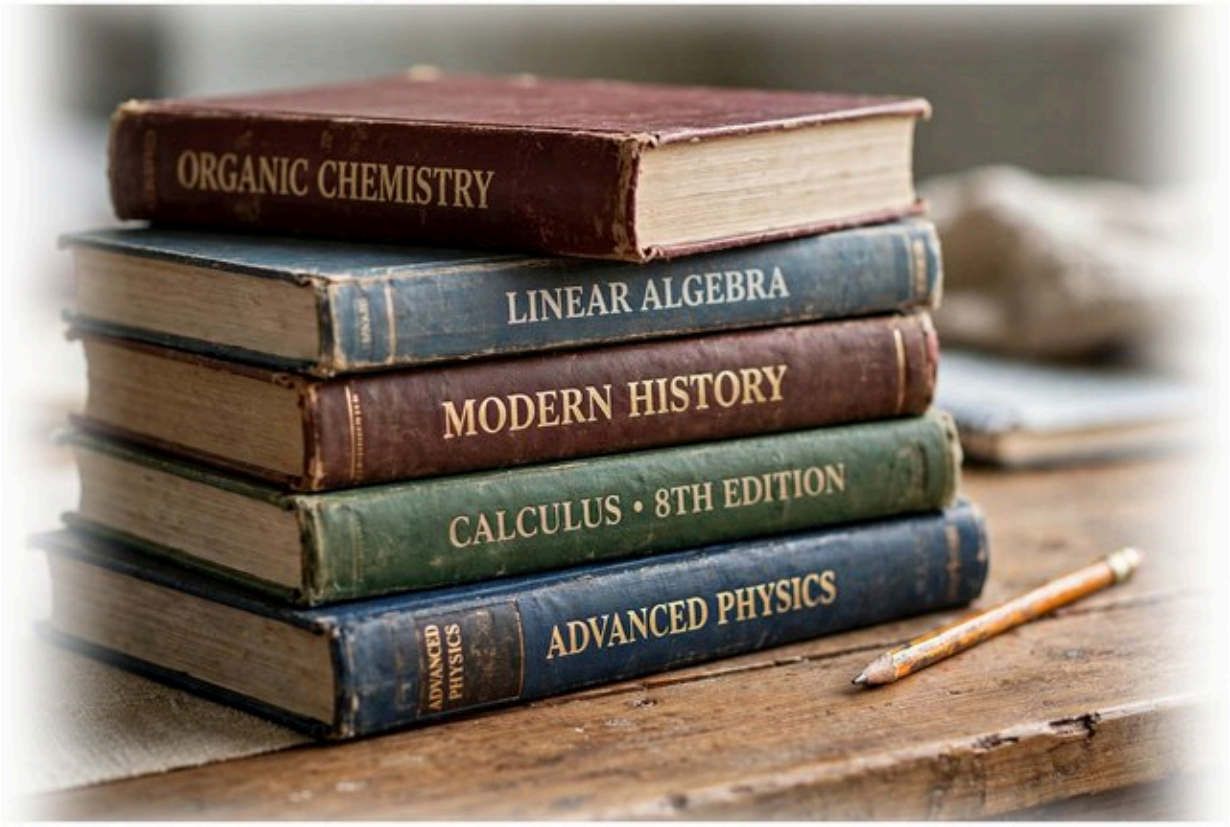
This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A 6 kg bowling ball rolls at 4 m per s. Its momentum, in kilogram metres per second, is ____**

ANSWER

Understand It with Pulse | Flag a mistake

2 **A 5 kg textbook rests on a desk. Using g = 9.8 m per s squared, its weight, in newtons, is ____**




ANSWER

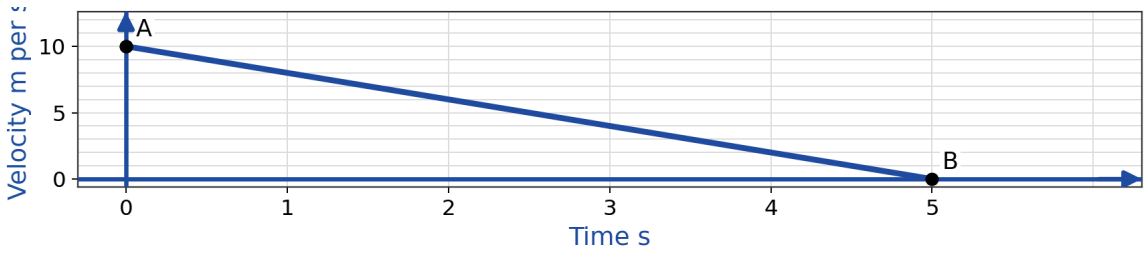
Understand It with Pulse | Flag a mistake

**3** **For a block on a gentle ramp, the component of weight along the ramp is**

- **A** equal to the full weight
- **B** less than the full weight
- **C** greater than the full weight
- **D** zero

Understand It with Pulse | Flag a mistake

**4** **The graph shows velocity against time for a cart slowing down. The magnitude of its acceleration, in metres per second squared, is**




- **A** 2
- **B** 5
- **C** 10
- **D** 0.5

Understand It with Pulse | Flag a mistake

5 **A 25 N force east and a 5 N force west act on a 4 kg block. The acceleration, in metres per second squared, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A rocket pushes exhaust gas downward. The gas pushes the rocket**

A downward

B sideways

C not at all

D upward

Understand It with Pulse | Flag a mistake

7 **A 25 N force acts on a skateboard for 2 s. The change in momentum, in kilogram metres per second, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

**8** **A crate slides across a floor. Friction on the crate points**



A in the direction it slides

B opposite to its sliding

C upward

D downward

Understand It with Pulse | Flag a mistake

9 **A 10 kg cart moves at 2.5 m per s. Its momentum, in kilogram metres per second, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **If the net force on an object doubles while its mass stays the same, its acceleration**

A stays the same

B halves

C doubles

D becomes zero

Understand It with Pulse | Flag a mistake

# ANSWER KEY

1. 24
2. 49
3. B
4. A
5. 5
6. D
7. 50
8. B
9. 25
10. C

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