NOVA SCOTIA PHYSICS 11 · UNIT D

Impulse, Momentum and One-Dimensional Collisions — Practice Test

Nova Scotia Physics 11 • 10 questions

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 **An object of mass 8 kilograms moves at 4 metres per second. Its momentum, in kilogram metres per second, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A force of 12 newtons acts for 5 seconds. The impulse, in newton seconds, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Momentum before a collision is calculated with signs because momentum has**

- A mass
- B direction
- C energy
- D time

Understand It with Pulse | Flag a mistake

4 **Momentum has both magnitude and direction because velocity is a**

- A vector
- B scalar
- C constant
- D unit

Understand It with Pulse | Flag a mistake

5 **Momentum is the product of mass and**

A velocity

B acceleration

C force

D time

Understand It with Pulse | Flag a mistake

6 **The unit of impulse is the**

A newton

B joule

C newton second

D watt

Understand It with Pulse | Flag a mistake

7 **Two objects stick together after collision. The collision is**

A elastic

B explosive

C absent

D perfectly inelastic

Understand It with Pulse | Flag a mistake

8 **Two trolleys move toward each other with momenta 20 and 15 in opposite directions. The total momentum magnitude in the first direction, in kilogram metres per second, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **An object of mass 12 kilograms moves at 3 metres per second. Its momentum, in kilogram metres per second, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **An object of mass 20 kilograms moves at 2 metres per second. Its momentum, in kilogram metres per second, is**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	32	**5.**	A	**9.**	36
2.	60	**6.**	C	**10.**	40
3.	B	**7.**	D		
4.	A	**8.**	5		

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