NEWFOUNDLAND AND LABRADOR PHYSICS 2204 · UNIT C

Momentum and Energy — Practice Test

Newfoundland and Labrador Physics 2204 • 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 **A machine has useful output 60 J from input 150 J. Its efficiency, as a percent, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A 3 kg object falls 10 m . Ignoring air resistance , the kinetic energy gained , in joules , using g = 9.8 , is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Apply the property. Momentum is a**

A scalar quantity

B unit of energy

C force

D vector quantity

Understand It with Pulse | Flag a mistake

4 **Consider the property in general. In an elastic collision, kinetic energy is**

A conserved

B lost completely

C doubled

D converted to mass

Understand It with Pulse | Flag a mistake

5 **A 5 kg object moves at 8 m per second. Its momentum, in kilogram metres per second, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A 5 kg object moves at 4 m per second. Its kinetic energy, in joules, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A 4 kg object is 15 m above the ground . Its gravitational potential energy , using g = 9.8 , in joules , is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **A force of 20 N moves an object 5 m in the direction of the force. The work done, in joules, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **Work of 300 J is done in 6 s. The power, in watts, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **Review the statement. In a closed system with no external forces, total momentum is**

A doubled

B halved

C conserved

D zero always

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	40	**5.**	40	**9.**	50
2.	294	**6.**	40	**10.**	C
3.	D	**7.**	588		
4.	A	**8.**	100		

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