SASKATCHEWAN PHYSICS 30 · UNIT C

Conservation Laws - Energy and Momentum — Practice Test

Saskatchewan Physics 30 • 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 mass of 8 kg moves at 3 m per second. Its kinetic energy, in joules, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A mass of 5 kg moves at 10 m per second. Its momentum, in kg m per second, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A mass of 8 kg is lifted 2 m . Using g = 9.8 m per second squared , its gain in gravitational potential energy , in joules , is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A net force does 50 J of work on an object. By the work-energy theorem, the object's kinetic energy**

- A increases by 50 J
- B decreases by 50 J
- C stays the same
- D becomes zero

Understand It with Pulse | Flag a mistake

5 **Work done on an object equals its change in**

- A kinetic energy
- B mass
- C temperature only
- D volume

Understand It with Pulse | Flag a mistake

6 **A mass of 6 kg moves at 4 m per second. Its kinetic energy, in joules, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A mass of 2 kg moves at 15 m per second. Its momentum, in kg m per second, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **A mass of 6 kg is lifted 6 m . Using g = 9.8 m per second squared , its gain in gravitational potential energy , in joules , is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **A mass of 10 kg moves at 4 m per second. Its kinetic energy, in joules, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **A mass of 9 kg moves at 3 m per second. Its momentum, in kg m per second, is ____**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	36	**5.**	A	**9.**	80
2.	50	**6.**	48	**10.**	27
3.	156.8	**7.**	30		
4.	A	**8.**	352.8		

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