COLORADO PHYSICS · UNIT 2 · 10 QUESTIONS

Work, Energy, and Momentum — 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 2 kg object moves at 7 m/s. Its momentum, in kilogram meters per second, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A force of 50 N acts for 4 s. The impulse, in newton seconds, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **If an object height doubles while its mass stays the same, its gravitational potential energy**



A halves

B quadruples

C stays the same

D doubles

Understand It with Pulse | Flag a mistake

4 **In an inelastic collision, momentum is conserved but total kinetic energy is**

A also conserved

B not conserved

C always increased

D always zero

Understand It with Pulse | Flag a mistake

5 **A 2 kg object moving at 6 m/s collides and sticks to a stationary 4 kg object. Their common speed is**



A 6 m/s

B 3 m/s

C 2 m/s

D 12 m/s

Understand It with Pulse | Flag a mistake

6 **Power is defined as work divided by**

A distance

B force

C time

D mass

Understand It with Pulse | Flag a mistake

7 **A 5 kg object moving at 2 m/s has kinetic energy 10 J. If its speed becomes 4 m/s, its kinetic energy is**

A 20 J

B 10 J

C 80 J

D 40 J

Understand It with Pulse | Flag a mistake

8 **Use g = 10 m/s². An object dropped from 5 m reaches the ground with speed**

A 5 m/s

B 25 m/s

C 50 m/s

D 10 m/s

Understand It with Pulse | Flag a mistake

9 **A force of 15 N moves an object 6 m. The work done, in joules, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **An object of mass 8 kg moves at 2.5 m/s. Its momentum, in kilogram meters per second, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 14
2. 200
3. D
4. B
5. C
6. C
7. D
8. D
9. 90
10. 20

© 2026 Brett Robbins. All Rights Reserved.