CONNECTICUT PHYSICS · UNIT 2 · 25 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 force of 10 newtons pushes an object 5 meters in the direction of the force. The work done is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A force of 20 newtons pushes an object 3 meters in the direction of the force. The work done is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A force of 15 newtons pushes an object 4 meters in the direction of the force. The work done is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A force of 25 newtons pushes an object 2 meters in the direction of the force. The work done is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A force of 30 newtons pushes an object 3 meters in the direction of the force. The work done is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **An object of mass 2 kilograms moves at 4 meters per second . Its kinetic energy , $\frac{1}{2}mv^2$, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **An object of mass 4 kilograms moves at 3 meters per second . Its kinetic energy , $\frac{1}{2}mv^2$, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **An object of mass 1 kilograms moves at 10 meters per second . Its kinetic energy , $\frac{1}{2}mv^2$, is**

ANSWER

Understand It with Pulse | Flag a mistake

9 **An object of mass 5 kilograms moves at 2 meters per second . Its kinetic energy , $\frac{1}{2}mv^2$, is**

ANSWER

Understand It with Pulse | Flag a mistake

10 **An object of mass 3 kilograms moves at 6 meters per second . Its kinetic energy , $\frac{1}{2}mv^2$, is**

ANSWER

Understand It with Pulse | Flag a mistake

11 **An object of mass 2 kilograms is 5 meters high, using g equals 10. Its gravitational potential energy is**

ANSWER

Understand It with Pulse | Flag a mistake

12 **An object of mass 5 kilograms is 4 meters high, using g equals 10. Its gravitational potential energy is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **An object of mass 10 kilograms is 3 meters high, using g equals 10. Its gravitational potential energy is**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **An object of mass 4 kilograms is 10 meters high, using g equals 10. Its gravitational potential energy is**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **An object of mass 3 kilograms is 6 meters high, using g equals 10. Its gravitational potential energy is**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **An object of mass 2 kilograms moves at 3 meters per second. Its momentum is**

ANSWER

Understand It with Pulse | Flag a mistake

17 **An object of mass 5 kilograms moves at 2 meters per second. Its momentum is**

ANSWER

Understand It with Pulse | Flag a mistake

18 **An object of mass 4 kilograms moves at 4 meters per second. Its momentum is**

ANSWER

Understand It with Pulse | Flag a mistake

19 **An object of mass 10 kilograms moves at 1 meters per second. Its momentum is**

ANSWER

Understand It with Pulse | Flag a mistake

20 **An object of mass 6 kilograms moves at 3 meters per second. Its momentum is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **Work of 100 joules is done in 5 seconds. The power is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **Work of 200 joules is done in 4 seconds. The power is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **Work of 150 joules is done in 3 seconds. The power is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **Work of 300 joules is done in 10 seconds. The power is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **Work of 90 joules is done in 3 seconds. The power is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	50	**10.**	54	**19.**	10
2.	60	**11.**	100	**20.**	18
3.	60	**12.**	200	**21.**	20
4.	50	**13.**	300	**22.**	50
5.	90	**14.**	400	**23.**	50
6.	16	**15.**	180	**24.**	30
7.	18	**16.**	6	**25.**	30
8.	50	**17.**	10		
9.	10	**18.**	16		

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