DELAWARE PHYSICS · UNIT 1 · 10 QUESTIONS

Kinematics and Dynamics — 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 mass of 2 kilograms accelerates at 4 meters per second squared. The net force in newtons is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Using g = 10 meters per second squared , the weight in newtons of a 5 kilogram mass is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **An object travels 100 meters in 10 seconds. Its average speed in meters per second is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **An object speeds up from rest to 10 meters per second in 5 seconds. Its acceleration in meters per second squared is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A mass of 3 kilograms accelerates at 2 meters per second squared. The net force in newtons is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **An object travels 100 meters in 2 seconds. Its average speed in meters per second is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **An object speeds up from rest to 10 meters per second in 10 seconds. Its acceleration in meters per second squared is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **A mass of 3 kilograms accelerates at 3 meters per second squared. The net force in newtons is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **An object travels 40 meters in 2 seconds. Its average speed in meters per second is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **An object travels 20 meters in 10 seconds. Its average speed in meters per second is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	8	**5.**	6	**9.**	20
2.	50	**6.**	50	**10.**	2
3.	10	**7.**	1		
4.	2	**8.**	9		

© 2026 Brett Robbins. All Rights Reserved.