KINEMATICS AND DYNAMICS - PRACTICE TEST | ARIZONA PHYSICS · UNIT 1 · 5 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 red race car speeds up. An object starts from rest and accelerates at 3 m/s² for 7 s. Its final speed is**



A 10 m/s

B 21 m/s

C 28 m/s

D 4 m/s

Understand It with Pulse | Flag a mistake

2 **An object moves with initial speed 10 m/s and acceleration 4 m/s² for 3 s. Its displacement is**

- **A** 30 m
- **B** 48 m
- **C** 66 m
- **D** 42 m

Understand It with Pulse | Flag a mistake

3 **An object starts from rest and accelerates at 5 m/s² over a distance of 10 m. Its final speed is**

- **A** 5 m/s
- **B** 25 m/s
- **C** 50 m/s
- **D** 10 m/s

Understand It with Pulse | Flag a mistake

4 **Use g = 10 m/s². An object dropped from rest falls for 2 s. The distance it falls is**

- **A** 10 m
- **B** 20 m
- **C** 40 m
- **D** 5 m

Understand It with Pulse | Flag a mistake

5 **Use g = 10 m/s². A ball is thrown upward with vertical speed 50 m/s. The time to reach its highest point, in seconds, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. B
2. B
3. D
4. B
5. 5

© 2026 Brett Robbins. All Rights Reserved.