CALIFORNIA 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 **An object starts from rest and accelerates at 5 m/s² for 4 s. Its final speed is**

- A 25 m/s
- B 9 m/s
- C 16 m/s
- D 20 m/s

Understand It with Pulse | Flag a mistake

2 **An object with initial speed 10 m/s accelerates at 2 m/s² for 5 s. Its displacement is**

A 60 m

B 100 m

C 75 m

D 50 m

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3 **Rain falls from a cloud. Use g = 10 m/s². An object dropped from rest falls for 5 s. The distance it falls is**



A 125 m

B 250 m

C 50 m

D 25 m

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4 **A net force of 90 N acts on a 30 kg object. Its acceleration is**

- **A** 120 m/s²
- **B** 3 m/s²
- **C** 2700 m/s²
- **D** 60 m/s²

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5 **Use g = 10 m/s². The weight of a 8 kg object is**

- **A** 0.8 N
- **B** 800 N
- **C** 80 N
- **D** 18 N

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ANSWER KEY

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

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