COLORADO 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 6 s. Its final speed is

A 11 m/s

B 30 m/s

C 1.2 m/s

D 0.83 m/s

Understand It with Pulse

Flag a mistake

2 **An object moves at 4 m/s and accelerates at 3 m/s² for 2 s. Its displacement is**

A 14 m

B 8 m

C 20 m

D 6 m

Understand It with Pulse | Flag a mistake

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



A 40 m

B 160 m

C 80 m

D 20 m

Understand It with Pulse | Flag a mistake

4 **A 10 kg object is pushed with a net force of 40 N. Its acceleration is**

- **A** 400 m/s²
- **B** 0.25 m/s²
- **C** 50 m/s²
- **D** 4 m/s²

Understand It with Pulse | Flag a mistake

5 **Use g = 10 m/s². The weight of a 12 kg object, in newtons, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. B
2. A
3. C
4. D
5. 120

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