ALASKA 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 **Red octagonal STOP sign on a metal pole against a pale blue sky, sign large in frame, no people. The sign face carries the word STOP (the real-world object); the image shows the eight-sided shape, not the answer word (octagon). An object starts from rest and accelerates at 5 m/s² for 3 s. Its final speed is**



- **A** 15 m/s
- **B** 8 m/s
- **C** 2 m/s
- **D** 45 m/s

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2 **An object moves with initial speed 6 m/s and acceleration 2 m/s² for 5 s. Its displacement is**

- **A** 30 m
- **B** 55 m
- **C** 80 m
- **D** 40 m

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3 **An object starts from rest and accelerates at 8 m/s² over a distance of 16 m. Its final speed is**

- **A** 8 m/s
- **B** 32 m/s
- **C** 16 m/s
- **D** 4 m/s

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4 **Use g = 10 m/s². An object dropped from rest falls for 6 s. The distance it falls is**

- **A** 60 m
- **B** 30 m
- **C** 90 m
- **D** 180 m

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5 **An object travels 240 m in 16 s. Its average speed, in meters per second, is ____**

ANSWER _____

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ANSWER KEY

1. A
2. B
3. C
4. D
5. 15

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