

Brett Robbins Academic Consulting

Physics 20 Practice Test

Unit A: Kinematics

5 Questions

Original practice questions written to the Alberta curriculum, in the style of past diploma examinations. Work through each question, then check your answers with the key at the end.

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, contact Brett for clarification.

Question 1

Which of the following quantities is a vector?

- | | |
|-----------------|----------|
| A) Distance | B) Speed |
| C) Displacement | D) Time |

Question 2

A car travels 240 m in 12 s at a constant speed.

The speed of the car is

- | | |
|--------------|-------------|
| A) 0.050 m/s | B) 20 m/s |
| C) 2.0 m/s | D) 2880 m/s |

Question 3

An object moves 45 m [E] in 9.0 s at a constant velocity.

Its velocity, in metres per second, is

Question 4

A car moving east slows down from 20 m/s to 8 m/s in 3.0 s.

Taking east as positive, the acceleration of the car is

- | | |
|----------------------------|-----------------------------|
| A) 4.0 m/s^2 [W] | B) 4.0 m/s^2 [E] |
| C) 9.3 m/s^2 [W] | D) 0.25 m/s^2 [W] |

Question 5

On a position–time graph of an object moving in a straight line,
the slope of the graph represents the objects

A) Displacement

B) Acceleration

C) Speed

D) Velocity

Answer Key

- | | | |
|------|--------|------|
| 1. C | 3. 5.0 | 5. D |
| 2. B | 4. A | |

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