



Force, Motion and Energy

Write the letter of the correct answer inside the box.

_____ 1. Which of the following is a scalar quantity?

- a. Acceleration
- b. Displacement
- c. Speed
- d. Velocity

_____ 2. Which unit is used to express acceleration?

- a. m/s^2
- b. m^2/s
- c. km/h
- d. km^3/h

_____ 3. Acceleration is the rate of change of:

- a. displacement
- b. position
- c. time
- d. Velocity

Analyze the problem. Put your answer in the provided space.

A car travels 200 m east for one minute, then heads northward and traverses 100 m for 20 s

What is the total distance traveled by car?

What is the car's displacement?

What is the average speed of the car?

The car traveled faster heading north than it did heading east. True or False?

Science 7

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