



## 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.  $\text{m/s}^2$
- b.  $\text{m}^2/\text{s}$
- c.  $\text{km/h}$
- d.  $\text{km}^3/\text{h}$

\_\_\_\_\_ 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?

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What is the car's displacement?

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What is the average speed of the car?

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

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Science 7

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