

Skills Worksheet

# Section Review

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## Momentum

### USING KEY TERMS

1. Use the following term in a sentence: momentum.

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### UNDERSTANDING KEY IDEAS

- \_\_\_\_\_ 2. Which of the following has the smallest amount of momentum?
- a. a loaded truck driven at highway speeds
  - b. a track athlete running a race
  - c. a baby crawling on the floor
  - d. a jet airplane being towed toward an airport
3. Explain the law of conservation of momentum.

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4. How is Newton's third law of motion related to the law of conservation of momentum?

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### MATH SKILLS

5. Calculate the momentum of a 2.5 kg puppy that is running with a velocity of 4.8 m/s south. Show your work below.

Section Review *continued*

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**CRITICAL THINKING**

6. **Applying Concepts** A car and a train are traveling with the same velocity. Do the two objects have the same momentum? Explain your answer.

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7. **Analyzing Ideas** When you catch a softball, your hand and glove move in the same direction that the ball is moving. Analyze the motion of your hand and glove in terms of momentum.

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