

REVIEW

8

SECTION 8.1

Motion

1. **Select** the quantity that has changed—velocity or speed—for a car that travels north at 88 km/h and then turns east while continuing to move at 88 km/h. Explain your answer.

2. **Infer** how distance and speed in the motions of clock parts are used to measure time.

3. **Explain** how you can use the speedometer and a clock to tell how far you've traveled in a car if the car's odometer is not working. (**Hint:** Assume you are traveling at a constant velocity.)

4. **Apply** the concept of momentum to compare a slow-moving train and a high-speed bullet.

5. **Indicate** which of the following has greater momentum: a 500 kg car moving at 64 km/h, a 250 kg cart moving at 128 km/h, or a 1000 kg truck moving at 32 km/h. Justify your answer.

6. **Infer** what you can say about the velocity of a car that is moving with a constant momentum.
