

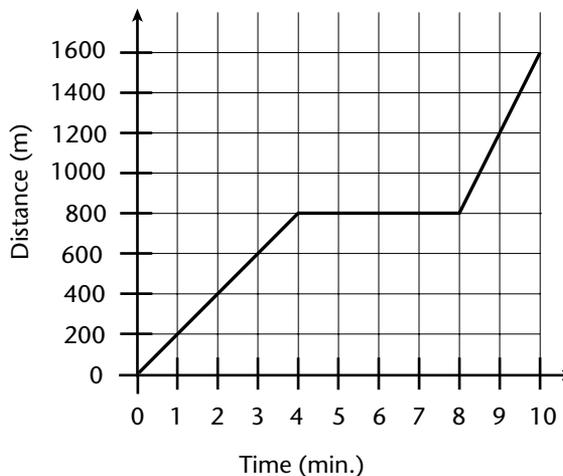
Motion ▪ *Review and Reinforce*

Describing and Measuring Motion

Understanding Main Ideas

Use the following paragraph and graph to answer questions 1 through 5. Write your answers on a separate sheet of paper. Remember to include units in your answers.

On Saturday, Ashley rode her bicycle to visit Maria. Maria's house is directly east of Ashley's. The graph shows how far Ashley was from her house after each minute of her trip.



1. Ashley rode at a constant speed for the first 4 minutes of her trip. What was her constant speed?
2. What was her average speed for the entire trip?
3. What was her average velocity for the entire trip?
4. Ashley stopped to talk with another friend during her trip. How far was she from her house when she stopped?
5. Ashley's brother rode beside her for several minutes. During this time, was he moving relative to Ashley?

Building Vocabulary

From the list below, choose the term that best completes each sentence. Write your answers on the lines provided.

- | | | |
|-----------------|-------------------------------|-------|
| motion | International System of Units | foot |
| reference point | yard | meter |
| average | velocity | speed |

6. Scientists around the world use the _____, a system of measurement based on the number ten.
7. An object is in _____ when its distance from a(n) _____ is changing.
8. Speed in a given direction is _____.
9. _____ can be calculated if you know the distance that an object travels in one unit of time.
10. The basic SI unit of length is the _____.