Name _____ Date _____ Class _____

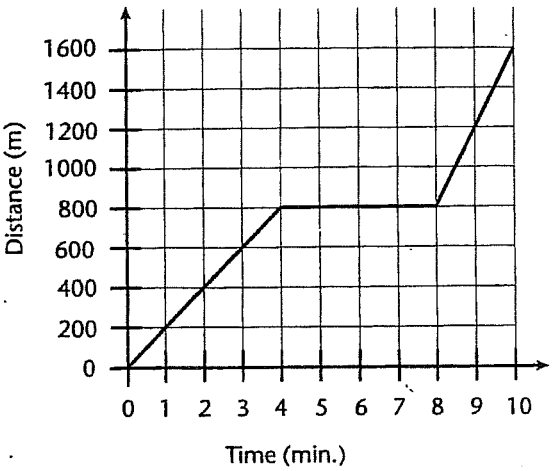
SECTION 1-1 REVIEW AND REINFORCE

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. What is the slope of the line after Ashley stopped to talk with her friend? How is the slope of the line related to her speed?

◆ Building Vocabulary

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

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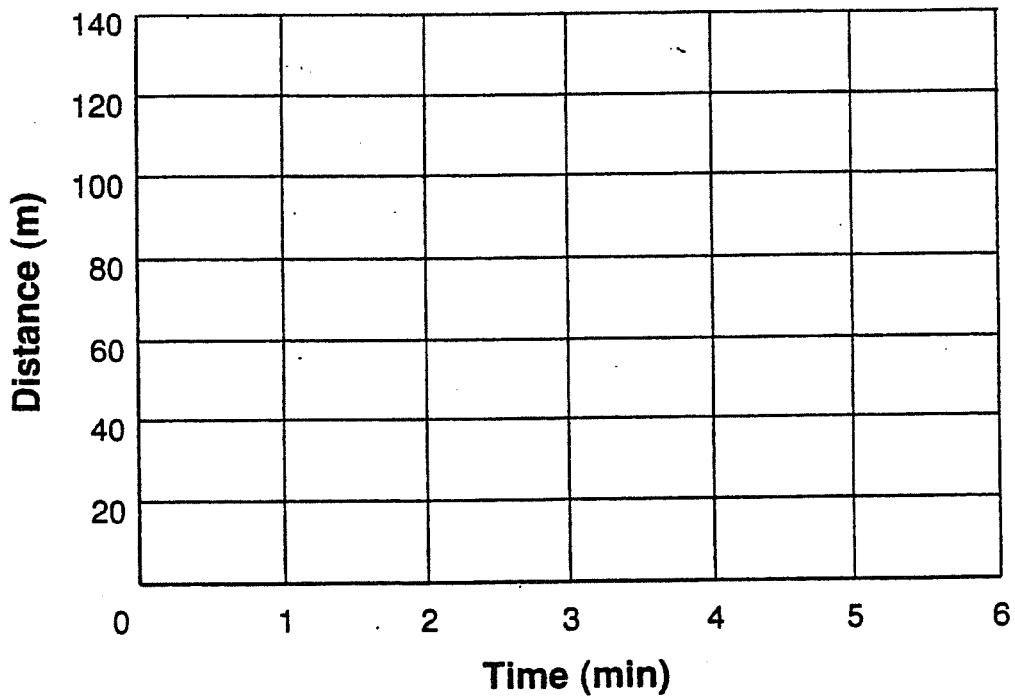
CALCULATING AVERAGE SPEED

Name _____

Graph the following data on the grid below and answer the questions at the bottom of the page.

Time (min)	Distance (m)
0	0
1	50
2	75
3	90
4	110
5	125



$$\text{Average Speed} = \frac{\text{Total Distance}}{\text{Total Time}}$$

1. What is the average speed after two minutes? _____
2. After three minutes? _____
3. After five minutes? _____
4. What is the average speed between two and four minutes? _____
5. What is the average speed between four and five minutes? _____