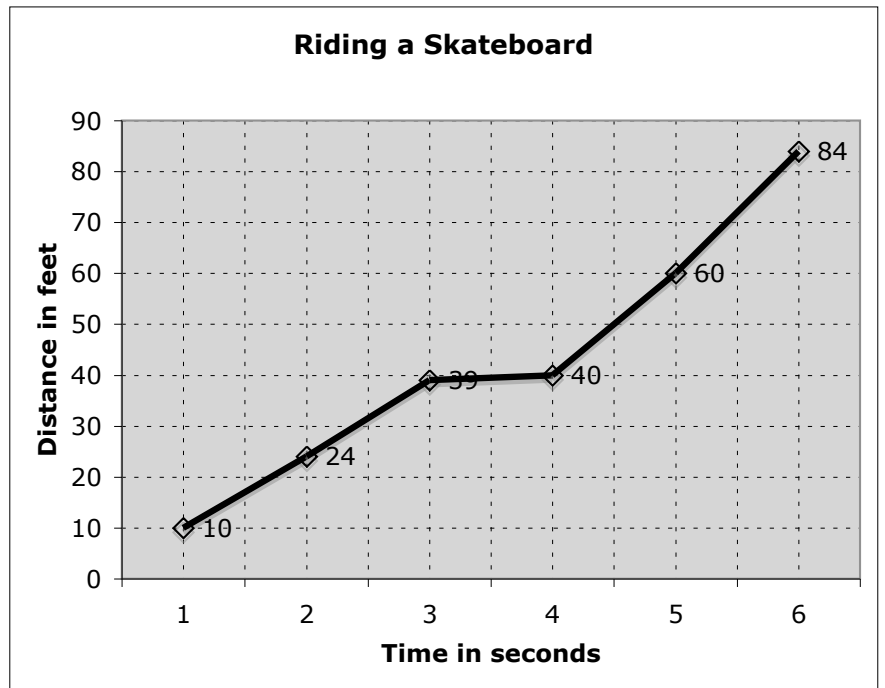Name _____ period _____

Science Skills
Reading Motion Graphs

You have learned how to calculate speed. Remember it is distance divided by time. Units can be feet per second (ft/min) or miles per hour (m/hr) or meters per second (m/sec).

1. From the graph below determine the distance and speed while riding a skateboard.

Time in seconds	Distance in feet	Speed
1		
2		
3		
4		
5		
6		

Riding a Skateboard

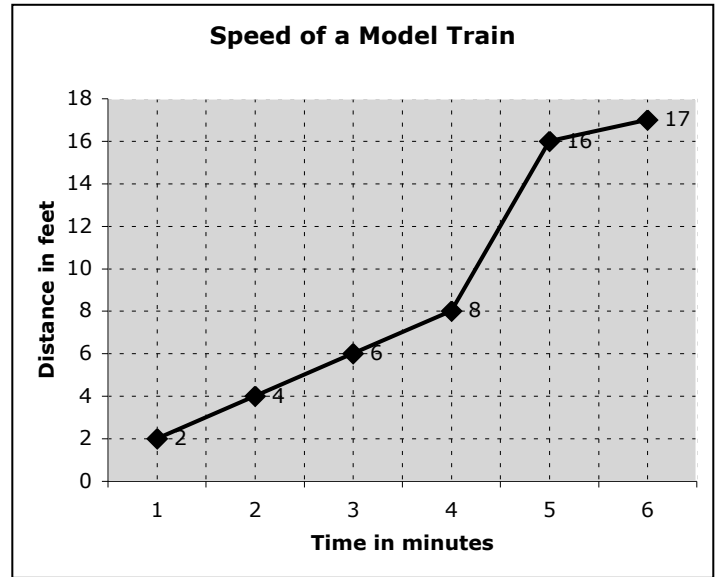2. Between what times is he going the slowest?

      a. between 2 and 3 seconds
      b. between 3 and 4 seconds
      c. between 4 and 5 seconds
      d. between 5 and 6 seconds

3. Between what times is he going the fastest?

      a. between 2 and 3 seconds
      b. between 3 and 4 seconds
      c. between 4 and 5 seconds
      d. between 5 and 6 seconds

4. From the graph below determine the distance and speed while playing with a electric model train.

Time in seconds	Distance in feet	Speed
1		
2		
3		
4		
5		
6		

Speed of a Model Train

5. Between what times is the train going the fastest?

        a. between 2 and 3 seconds
        b. between 3 and 4 seconds
        c. between 4 and 5 seconds
        d. between 5 and 6 seconds

6. Between what times is the train going the same speed?

        a. between 1 and 4 seconds
        b. between 4 and 5 seconds
        c. between 5 and 6 seconds

True or False

_____7. When the train has the fastest speed the line on the graph is steep like a mountain.

_____8. When the train has the same (constant) speed the line goes up and down.

_____9. When the skateboarder has the slowest speed the line is flat.

10. If the skateboarder covers 10 miles with a speed of 1 mile per minute how long will it take him to cover the 10 miles? _____

11. If the train covers 250 miles at a speed of 50 miles per minute how long will it take the train to cover the 250 miles? _____