Variables and Patterns Investigation 2.4 Homework-Interpreting Graphs

**1.** Suppose a motion detector tracks the time and the distance traveled as you walk 40 feet in 8 seconds. The results are shown in the graphs below.



distance

time

**Match one of the *(time, distance)* graphs above with the story that describes each walk**

**1a**. You walk at a steady pace of 5 feet every second \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**1b**. You walk slowly at first, and then steadily increase your walking speed \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**1c** You walk rapidly at first, pause for several seconds, and that walk at an increasing rate the rest of the trip

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**1d**. You walk at a steady rate for 3 seconds, pause for 2 seconds, and then continue at the steady rate for the rest of the

trip \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**1e** You walk rapidly at first, but gradually slow down as you reach the end of your walk \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2.** The graph at right shows how the temperature changed during an all-day hike by students in the Terrapin Middle School science club.

**2a**. What was the maximum temperature and when did it occur?

**2b.** During what time(s) was the temperature rising most rapidly?

**2c**. During what time(s) was the temperature falling most rapidly?

**2d.** When was the temperature about 24°C?

**2e**. The hikers encountered a thunderstorm with rain. When do you think this happened? Explain