

Student Name:

Date:

## Movin' With Musa

Musa used a data collection device and a motion detector to record his distance from the motion detector over a period of 10 seconds. His resulting graph is shown below.



- 1. Where does the graph intersect the y-axis? What is the meaning of this point?
- 2. What was Musa doing during the first 2 seconds and seconds 5–9 of this time period? How do you know?
- 3. During which time interval does the graph show a horizonal segment? What was Musa doing during this time? How do you know?
- 4. What happens when 9 seconds have elapsed? How do you know?

## **Communicating About Mathematics**

What would Musa have to do to create a line graph with a positive slope? Justify your answer.

