Student Name: $\qquad$ Date: $\qquad$

## 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.

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