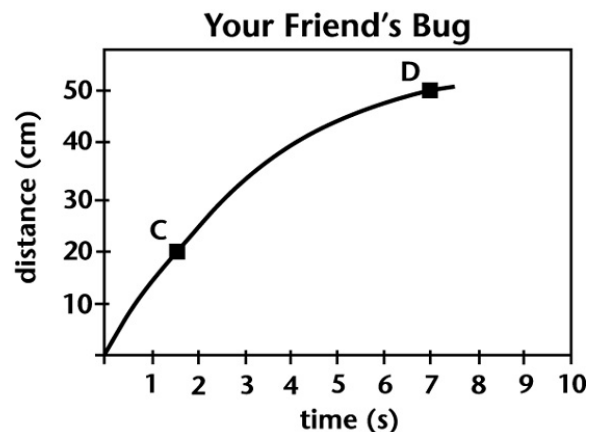
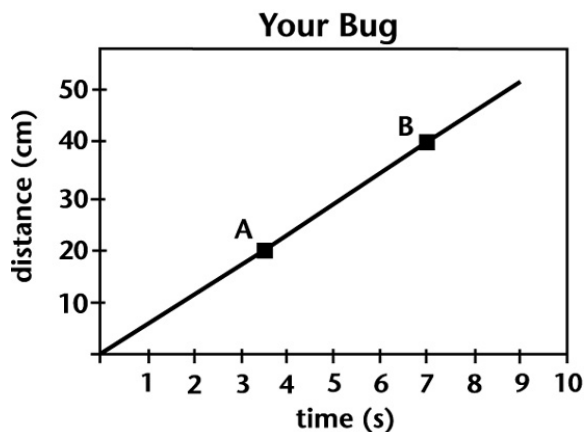


Bug Race

Complete this worksheet after you finish reading the section "Measuring Motion." You and a friend are having a bug race. You both measure the distance your pet bugs travel along a straight race track and record their times as they race. The results are plotted in the graphs below. Take a look at the two graphs. Then answer the questions that follow.



1. What is the distance from the starting line to Point A?
2. How long did it take your bug to travel that distance?
3. To determine your bug's average speed while traveling from the starting line to Point A, divide the distance traveled by the time it took to travel that distance: average speed = distance traveled/time traveled.
4. What is the distance from Point A to Point B?
5. How long did it take your bug to travel from Point A to Point B?
6. Calculate your bug's average speed from Point A to Point B.

7. What is the distance from the starting line to Point C?
8. How long did it take your friend's bug to travel that distance?
9. What is the average speed of your friend's bug at Point C?
10. What is the distance from the starting line to Point D?
11. How long did it take your friend's bug to travel that distance?
12. What is the average speed of your friend's bug at point D?
13. Compare the graphs of your bug and your friend's bug. Which bug was traveling at a constant speed? Explain your answer.
14. What happened to your friend's bug from Point C to Point D?