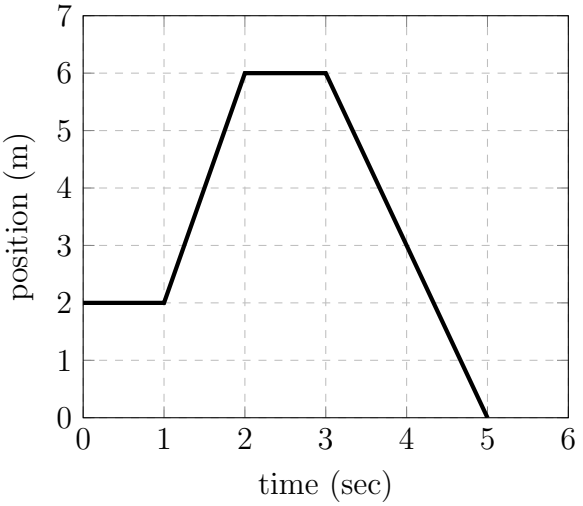
Name: Date: Period:

Graphing Stories Practice

Consider the following graph which depicts the motion of a cat prowling along a fence.



1. What is the cat's **position** at 1 second?

2. What is the cat's **position** at 1.5 seconds?

3. What is the cat's **velocity** between 2 and 3 seconds?

4. What is the cat's **velocity** between 1 and 2 seconds?

5. What is the cat's **velocity** between 3 and 5 seconds?

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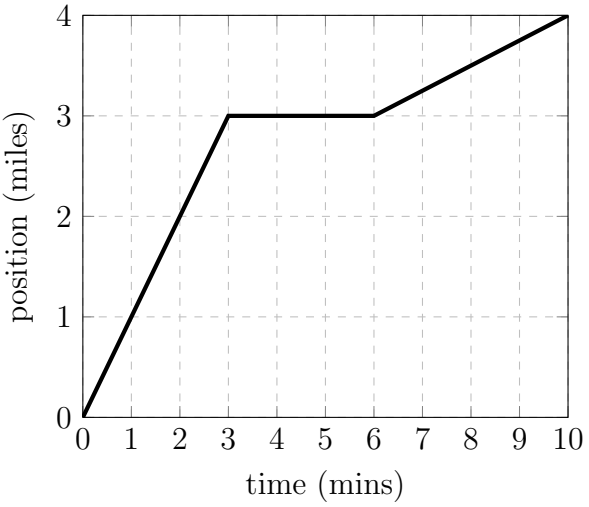
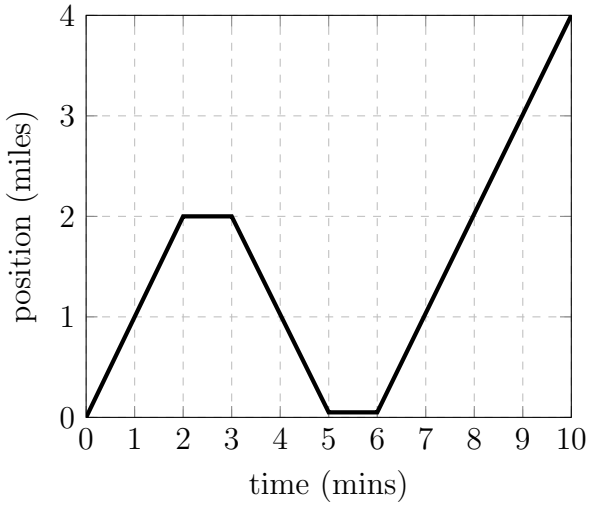
Consider the motion of these two cars to answer the following questions.

Car #1



Car #2



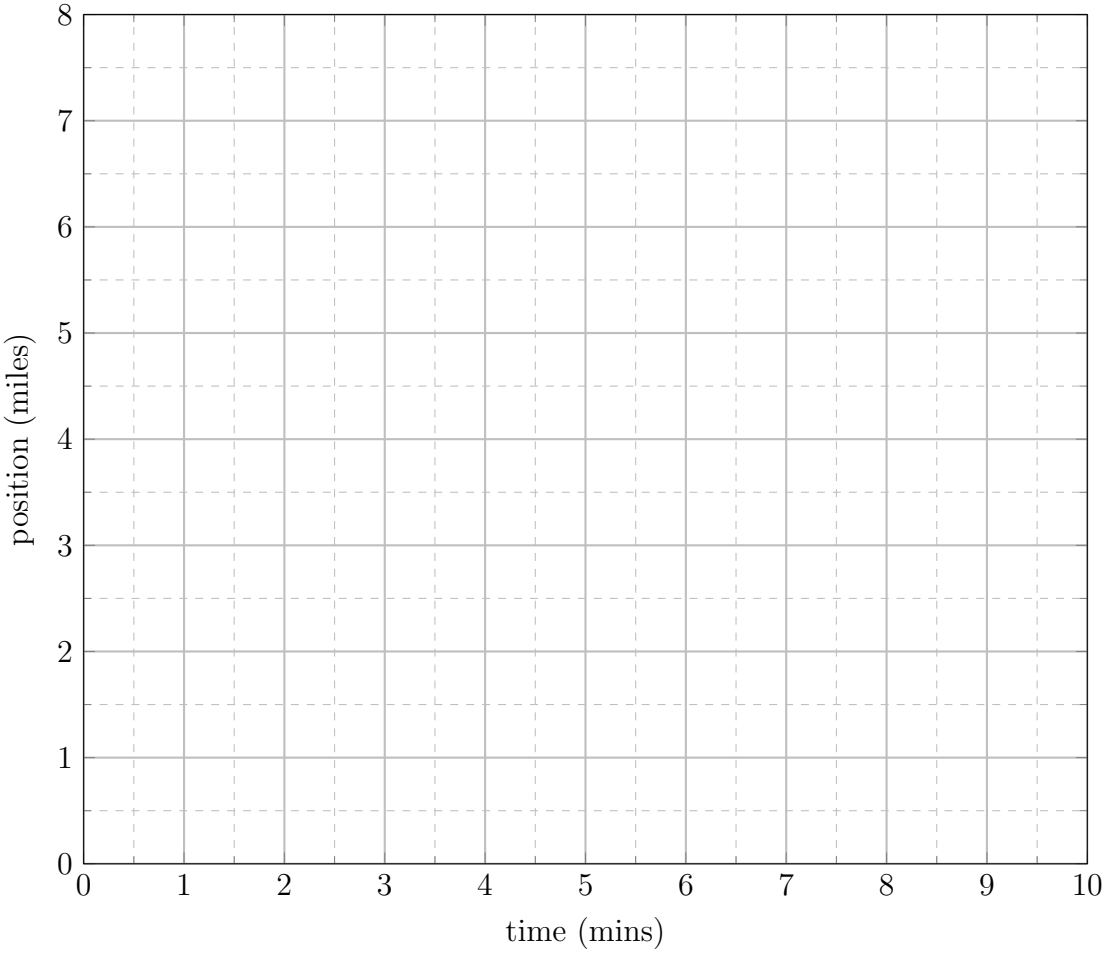
6. Which car started out moving faster? How do you know?

7. What was the total time that each car was stopped?

8. Match each of the following statements to the correct segment on one of the graphs. Write the appropriate letter next to its matching segment on the graph.
   (a) Car takes 2 minutes to return home
   (b) Car travels 4 miles in 4 minutes
   (c) Car stops for 3 minutes while picking up a friend.
   (d) Car travels 3 miles toward school in 3 minutes.
   (e) The driver, realizing he may have forgotten his homework, pulls over and looks through his backpack for one minute.
   (f) Due to traffic, the car moves slowly and only travels one mile in 2 minutes.
   (g) Car stops for 2 minutes

9. Now, you will be asked to draw your own position vs. tiume graph and come up with a story to describe it just like in the previous problem.

   You must have at least **5 parts of your story**: One part must be when you are **stopped**. One part must be where you are **moving backward**. The other three are up to you. For each part, you must include the f distance you wnet and the time that went by. For example, *"I drove my car for 5 miles in 8 minutes"*.



   Explain what your object is doing here: