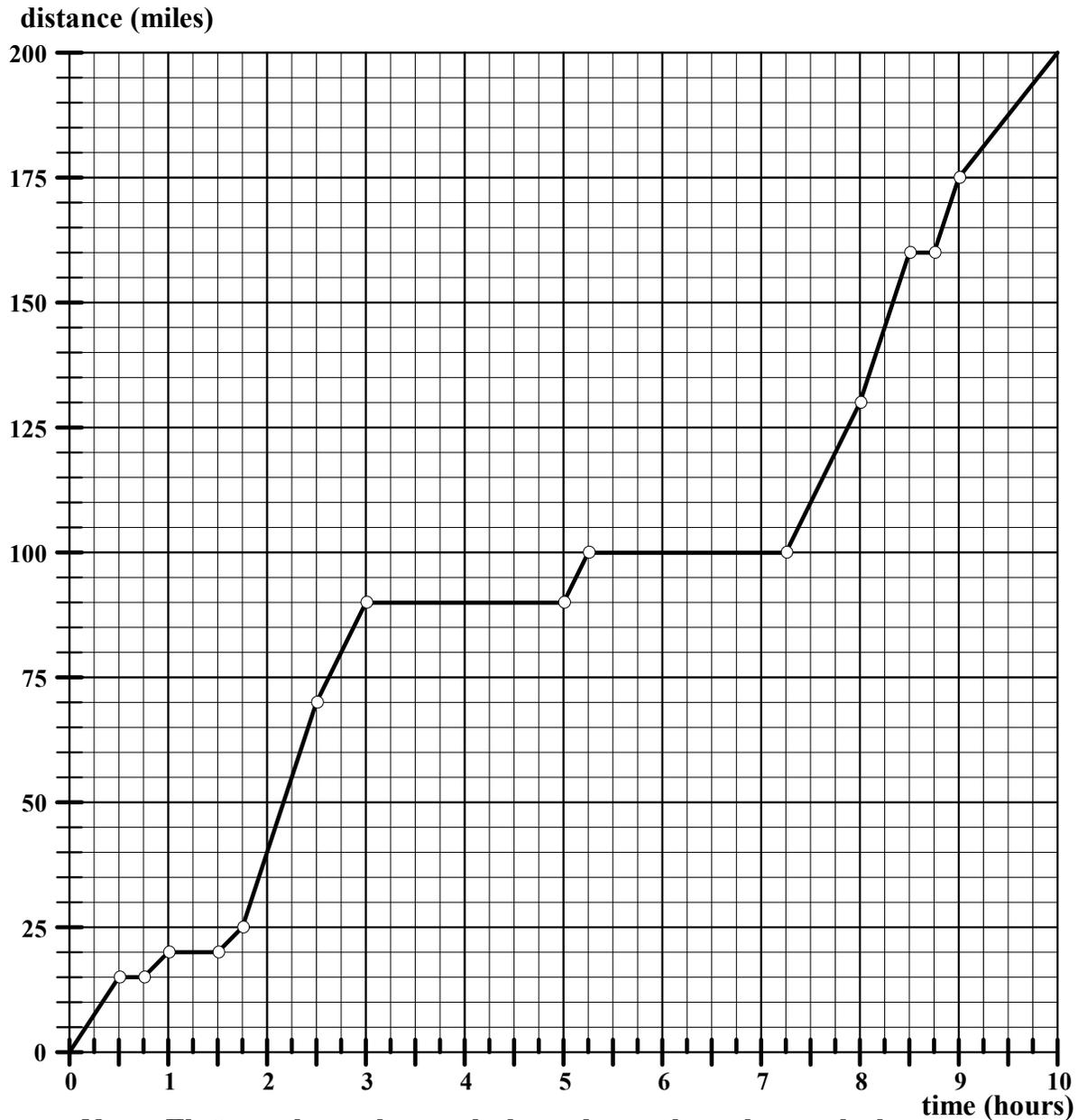


Advanced Challenge Level 1 Problem #69

The Trip Challenge

John and his sister Sue left their home at 8:00 AM one morning. As they were leaving, Sue reset the trip odometer. Ten hours later, they returned home. At that time the trip odometer showed that they had traveled 200 miles. The graph below shows the trip odometer reading (in miles) as a function of time, in hours, where $t = 0$ represents 8:00 AM. Your job for this challenge is work with a group of your peers to write an original story describing Sue and John's trip that day. On the day the project is due, you will be presenting your story to the class. The presentation can be performed as a skit, a rap, or just a reading.



Note: The \circ marks on the graph show places where the graph changes.

The Trip Challenge page 2 (Assessment)

Your story will be assessed using the standards below.

- 1. The story gives a reasonable interpretation and explanation for all changes in the graph.**
- 2. The story includes reasonable information as to the type of roads that Sue and John drove on.**
- 3. The story includes accurate information about the average speed for each part of the trip.**
- 4. The story is well written and entertaining.**
- 5. The story is original and shows imagination while also depicting events that are realistic.**

Your presentation will be assessed using the standards below.

- 1. All group members played an active role in the presentation.**
- 2. The presentation was creatively designed and entertaining.**
- 3. The props and/or costumes used during the presentation were appropriate and added to the overall understanding of the story-line.**
- 4. The presentation was well organized and all group members knew their parts well.**
- 5. The presentation lasted at most 7 minutes.**