Ms. Athlete's volleyball class does an experiment to determine their running rates from school to the local volleyball court. Here are the results for three students.

Name	Running Time
Francis	3 meters per second
Stephanie	2.5 meters per second
Candace	4 meters per second

1. If Francis, Stephanie, and Candace leave school together and run to the volleyball court at the rates given in the table, how far apart will they be after 1 minute?

2. If the volleyball court is 900 meters from school, how long will it take each student to run there?

3. When Candace arrives at the volleyball court, how far away will Francis be?

4. After 5 minutes, how far away from the volleyball court is each girl?

5. Does this running experiment involve a linear relationship? Explain why or why not.

Rates – Day 1   Name _____
Assignment   Date _____ Period _____

The Pink Wheel Antique Car Club went on a Saturday Car Trip to the coast. The graph shows the time and distance traveled by the club members.

Pink Wheel Antique Car Trip
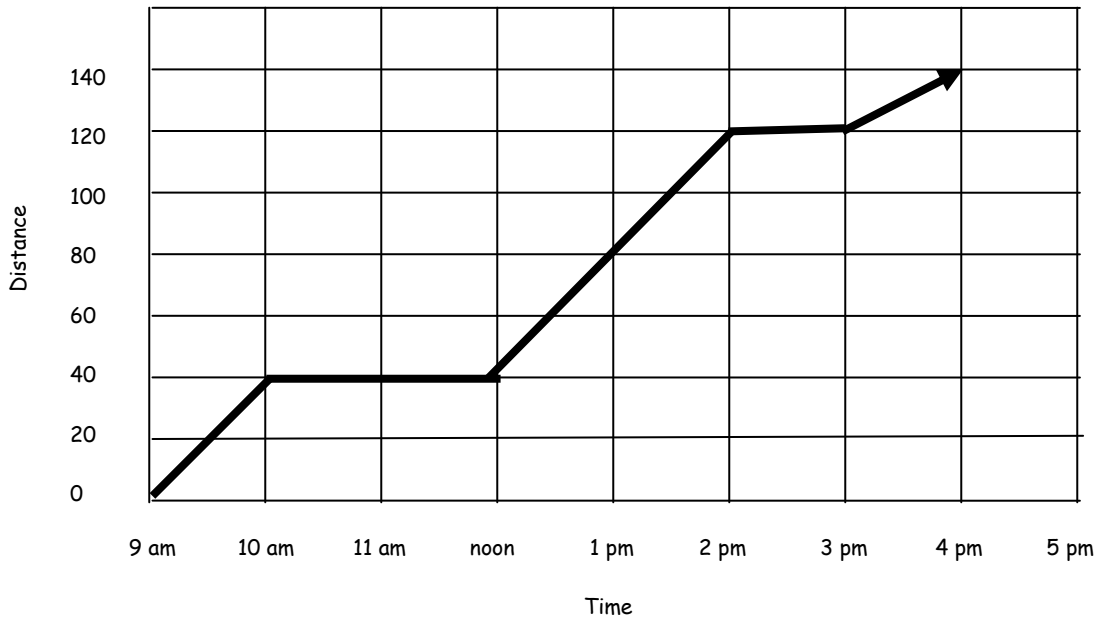
The average rate of speed in miles per hours, r, can be found by the ratio $r = \dfrac{d}{t}$, where d is the number of miles traveled and t is the number of hours.

6.   What was the average rate of speed from 9 am to 10 am?

7.   What was the average rate of speed from noon to 2 pm?

8.   Give an example of what is happening with the trip from 10 am to noon.

9.   How far into the trip would you expect the group to be by 5 pm?