The Big Race Finals

Today is the final event of "The Big Race"! You and your table mates will be competing in the tricycle race against the winners of Heat 1 and Heat 2, Leslie and Elizabeth.

Your Task: As a team, you each will do the following:

- Draw a graph showing all of the racers' progress over time. Identify the independent and dependent variables and use intervals of 1 on each axis.
- Write an equation for each participant.
- Figure out who won the race!

Rules:

- You must work cooperatively to solve the problem. No single team member has enough information to solve the problem alone.
- Each member of the team will be given a rider card (A, B, C, or D). You may **not** show your card to your team. You must communicate the information.
- Assume that each racer travels at a constant rate throughout the race.
- Elizabeth's and Leslie's cards will be shared by the entire team.

Using the following table may be helpful in creating your graph.

Racer Name	Rate	Starting position
Elizabeth		
Leslie		
A.		
B.		
C.		
D.		

Analysis:

In your notebook, in addition to your graph:

- Write equations for each of the race participant.
- Use your results to answer the following questions.

1. Who won The Big Race? Who came in last place?
2. How fast was Rider D traveling? How fast was Elizabeth traveling?
3. At one point in the race 4 different participants were the same distance from the starting line. Who were they, and when did this happen?