

Homework: How do C.J.'s results compare with Donovan Bailey's?

Directions: Graph both sets of data below on the same graph, then answer the questions below. Label each graph with the name of the runner.

C.J.'s Results:
100 m Outdoor Track

Time	Distance
s	m
.2	0
2.5	10
3.5	20
4.5	30
5.5	40
6.5	50
7.6	60
8.5	70
9.5	80
10.6	90
11.5	100

Donovan Bailey's Results:
100 m Outdoor Track

Time	Distance
s	m
.1	0
1.8	10
2.8	20
3.7	30
4.6	40
5.5	50
6.3	60
7.1	70
8.0	80
8.9	90
9.8	100

Questions:

Answer the following questions on a separate sheet of paper.

- Use your graph to find information to answer the following questions:
 - Approximately how far had C.J. traveled after 1.0 second?
 - Approximately how far had Donovan Bailey traveled after 1.0 second?
 - Approximately how far had C.J. traveled after 5.0 seconds?
 - Approximately how far had Donovan Bailey traveled after 5.0 seconds?
- Is one of the runners ahead of the other runner during the entire race? How do you know by reading the graph?
- What is the reaction time for each runner?
- Calculate the average speed of each runner in m/s.