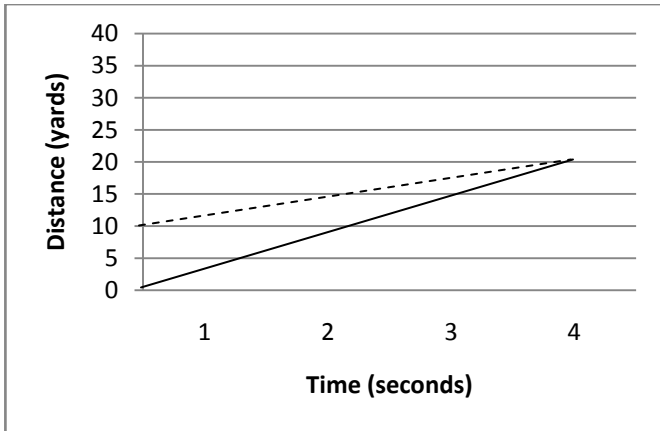


Distance Time Graphs Practice Problems

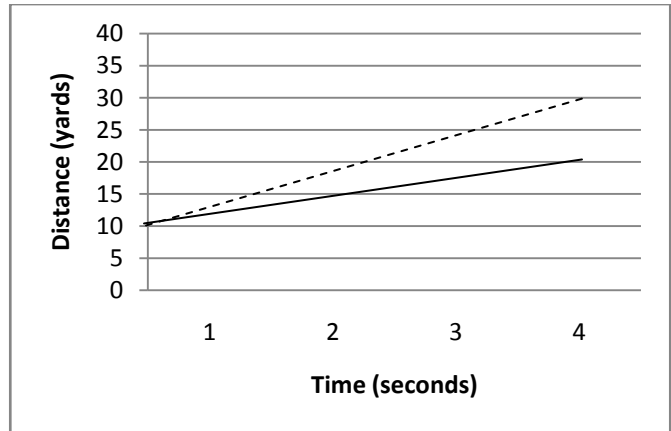
Examine the graphs below:

Runner 1= _____
 Runner 2 = _____

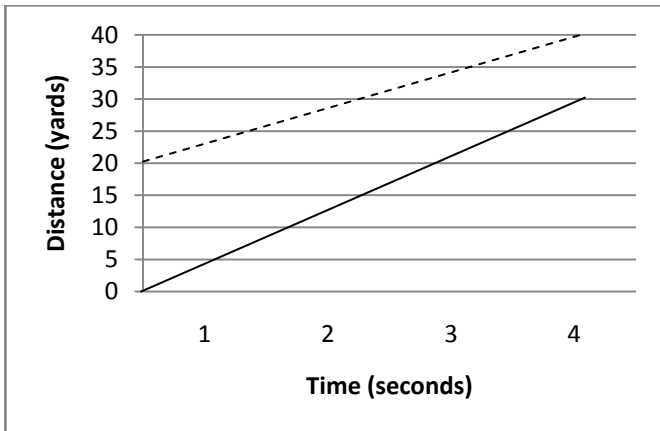
Graph A



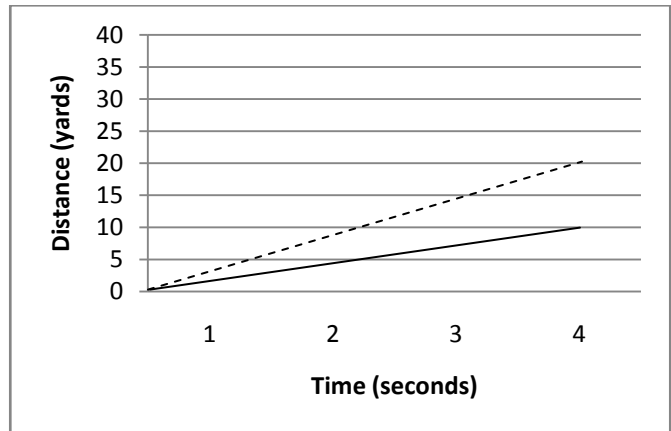
Graph B



Graph C



Graph D

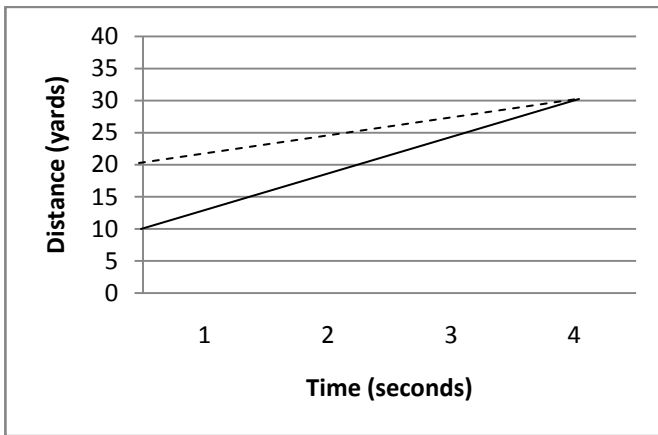


- Which of the graphs show that one of the runners started 10 yards further ahead of the other? _____
- Explain your answer.
- In graph D, which of the runners is faster? _____
- Calculate the speed of Runner 1 and Runner 2 for Graph D.

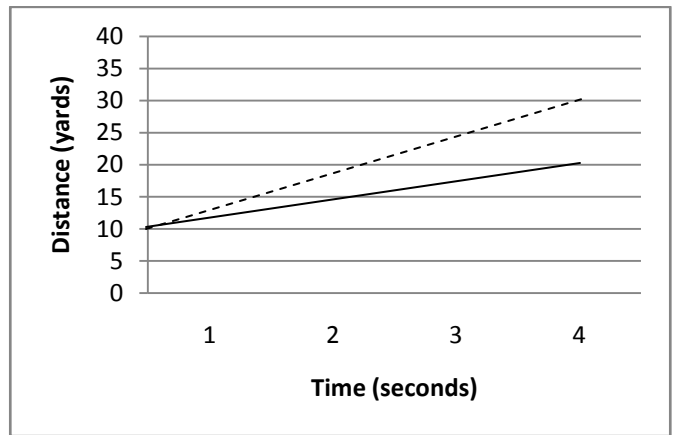
Runner 1	Runner 2

- Which graph had the fastest runner? How do you know?

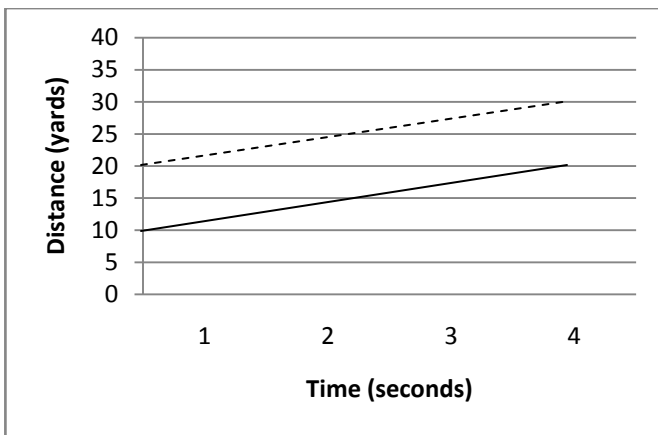
Graph A



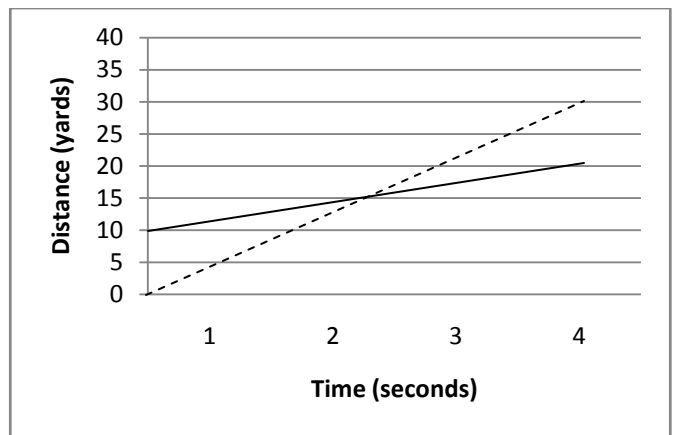
Graph B



Graph C



Graph D

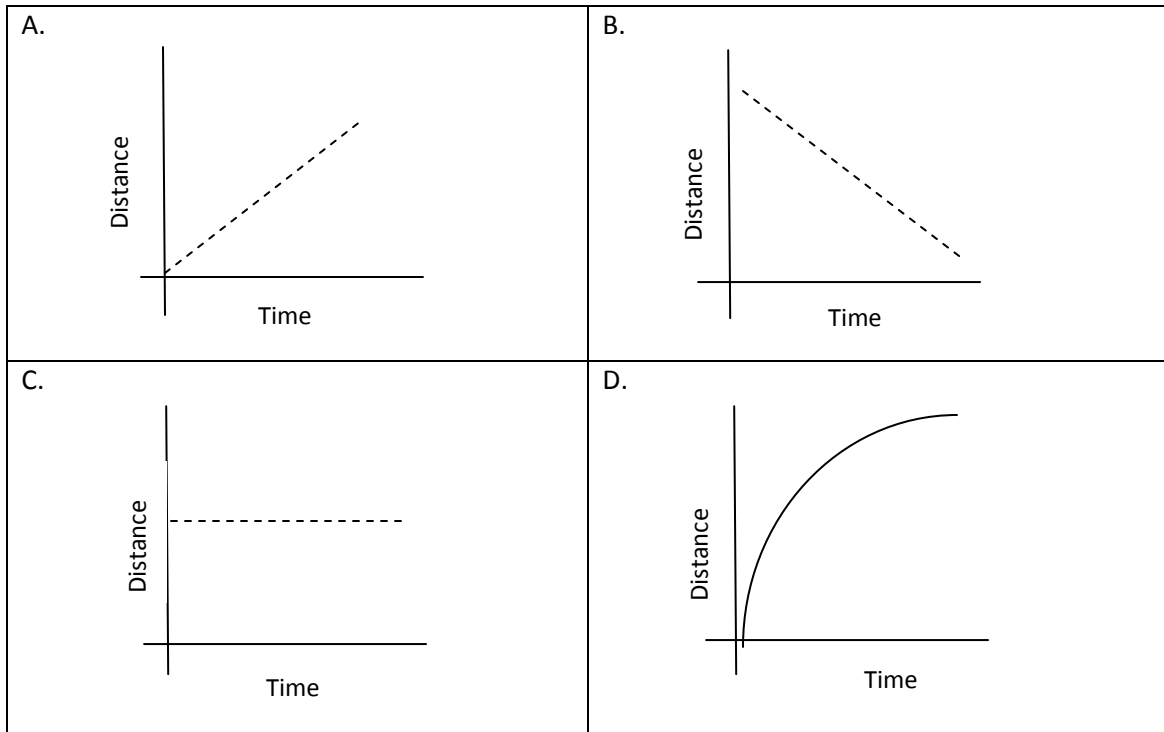


1. In which of the graphs are both runners moving at the same speed? _____
2. Calculate the average speed for Runner 2 in graph B.
3. What is the total distance for Runner 2 in Graph A? _____
4. In Graph B, about how long did it take for Runner 1 to travel between 10 and 20 yards? _____
5. Which runner traveled the farthest in Graph D? _____

The distance –time graphs below represent the motion of a car. Match the descriptions with the graphs. Explain your answers.

Descriptions:

1. The car stopped.
2. The car is traveling at constant speed.
3. The speed of the car is decreasing.
4. The car is coming back.

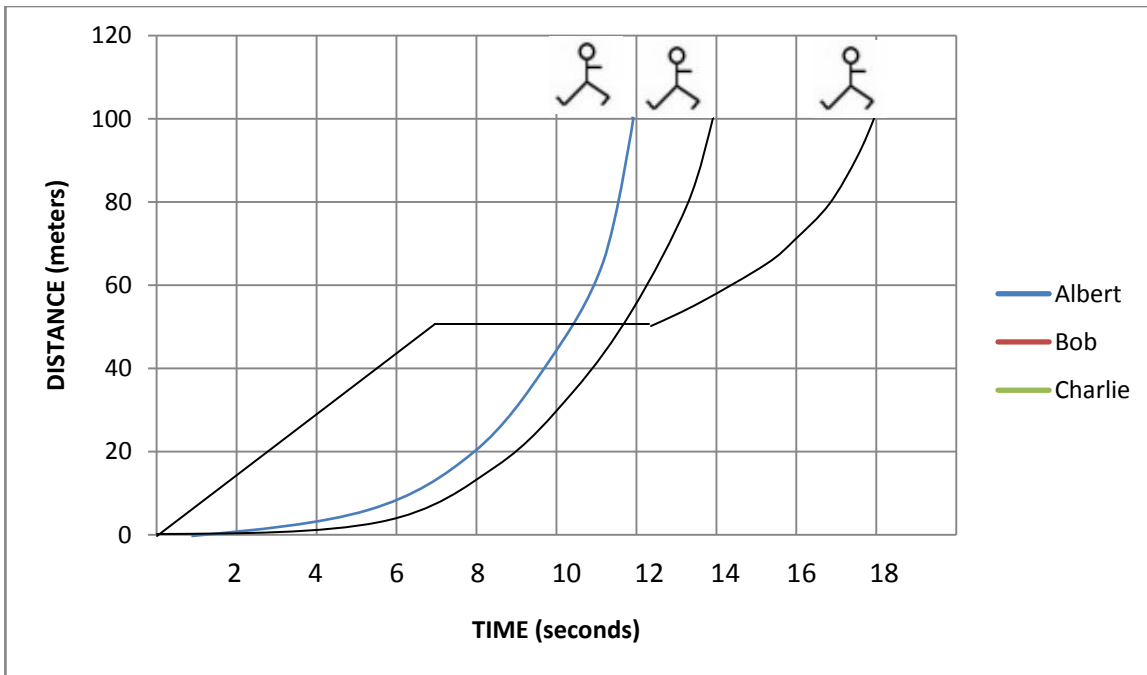


Graph A matches description _____ because _____.

Graph B matches description _____ because _____.

Graph C matches description _____ because _____.

Graph D matches description _____ because _____.



Look at the graph above. It shows how three runners ran a 100-meter race.

1. Which runner won the race? _____
2. Explain your answer.

3. Which runner stopped for a rest? _____
4. Explain your answer.

5. How long was the stop? _____
6. Explain your answer.

7. How long did Bob take to complete the race? _____
8. Explain your answer.

9. Calculate each runner's average speed.
 - a. Albert _____
 - b. Bob _____
 - c. Charlie _____