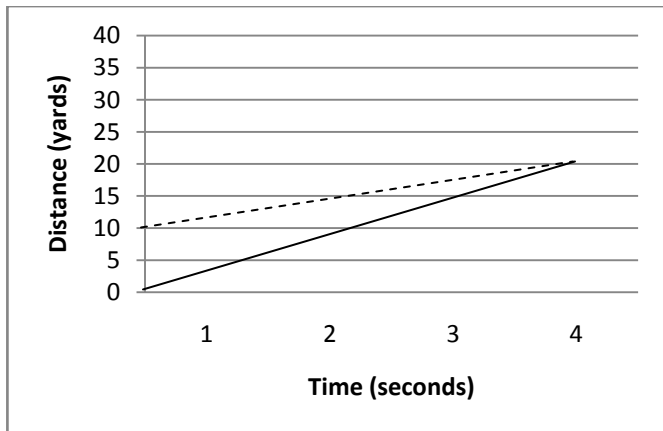


## Distance Time Graphs Practice Problems

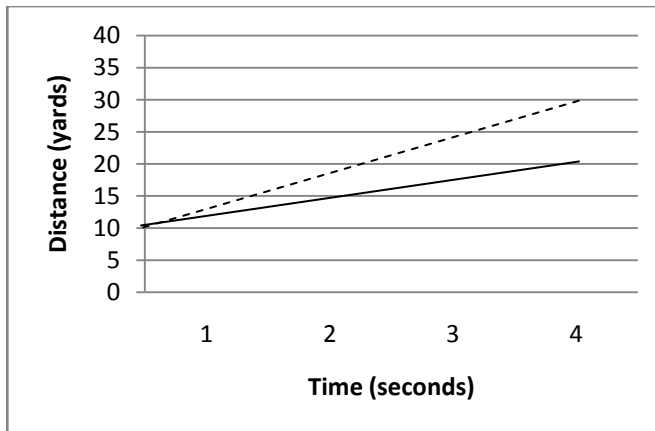
Examine the graphs below:

Runner 1= \_\_\_\_\_  
 Runner 2 = \_\_\_\_\_

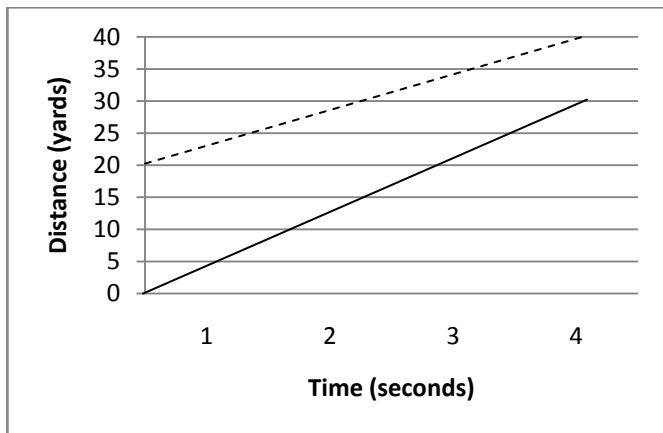
**Graph A**



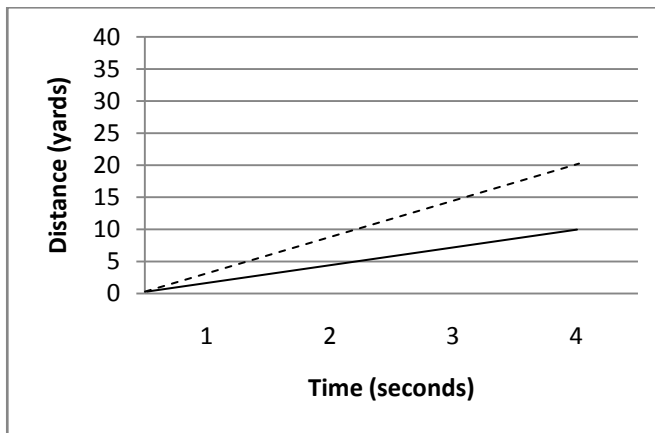
**Graph B**



**Graph C**



**Graph D**

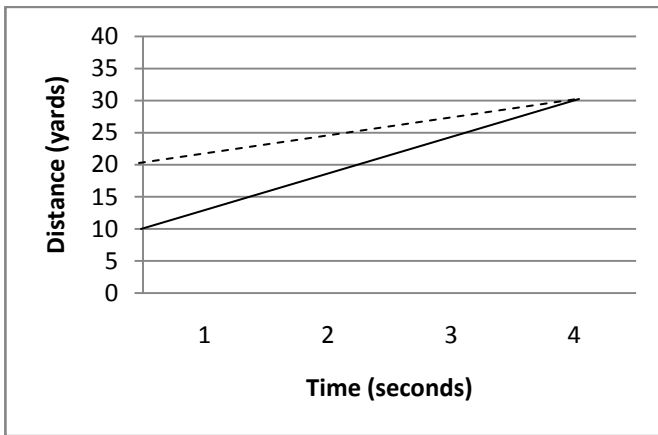


- Which of the graphs show that one of the runners started 10 yards further ahead of the other? \_\_\_\_\_
- Explain your answer.
- In graph D, which of the runners is faster? \_\_\_\_\_
- Calculate the speed of Runner 1 and Runner 2 for Graph D.

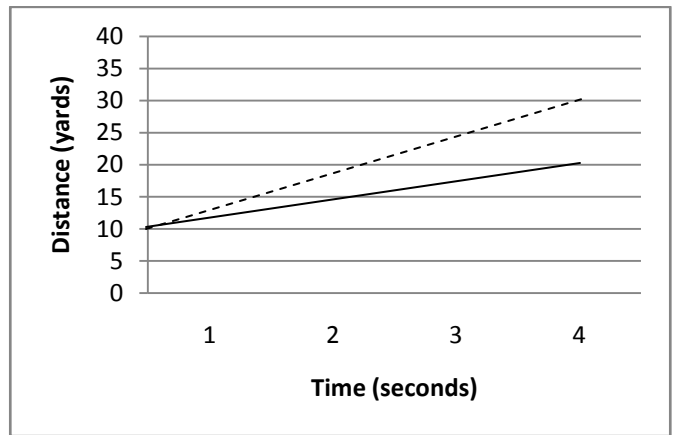
Runner 1	Runner 2

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

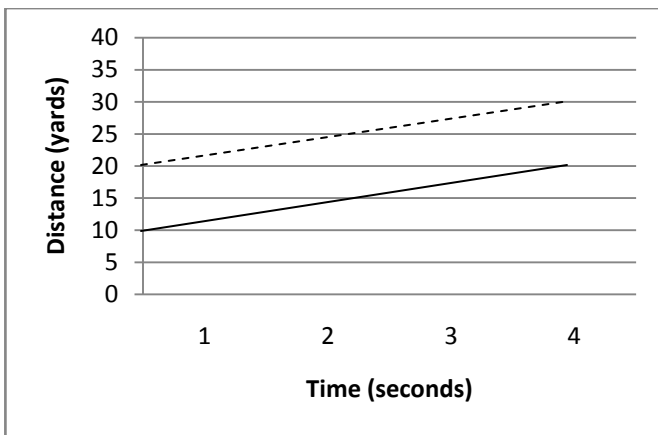
Graph A



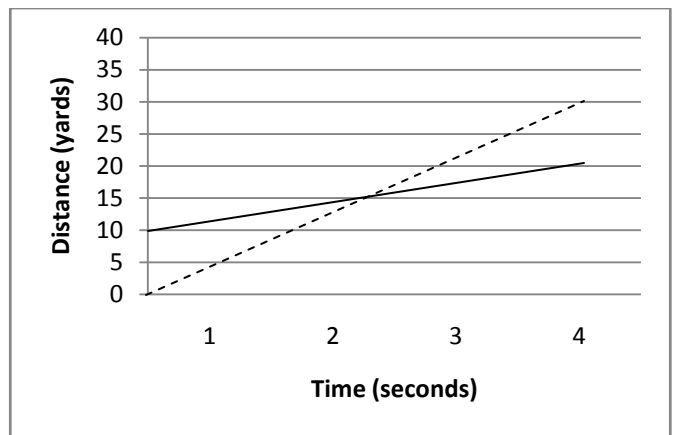
Graph B



Graph C



Graph D

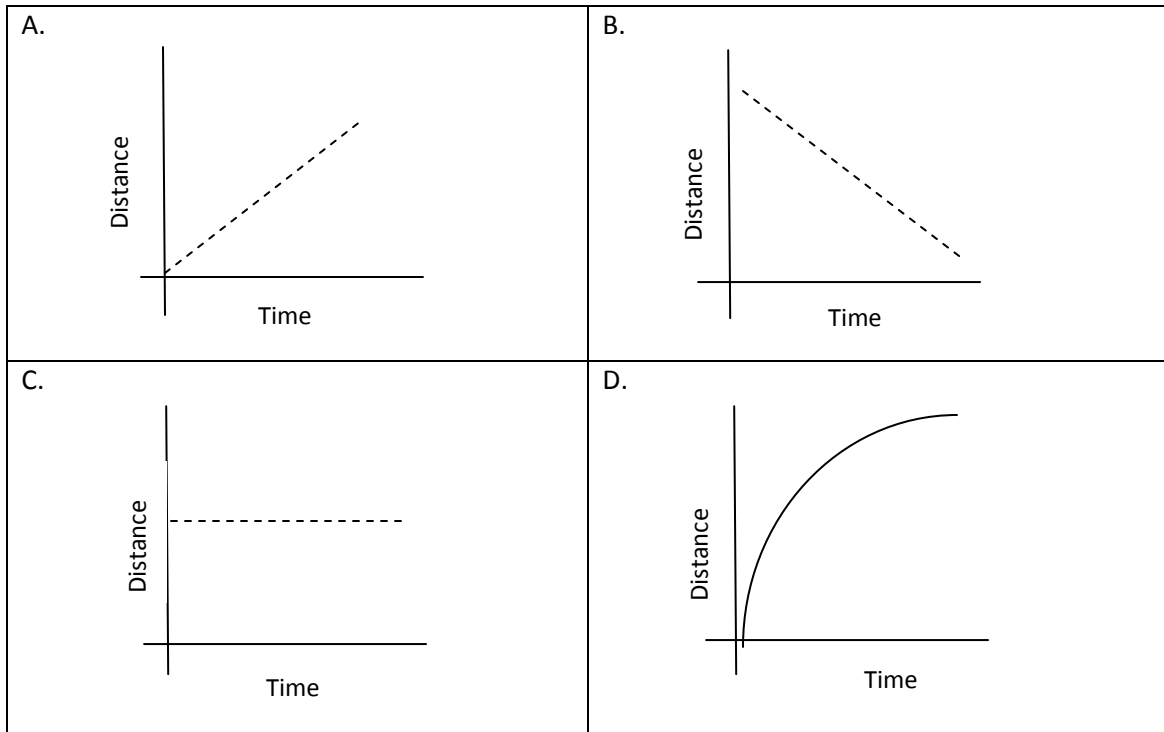


1. In which of the graphs are both runners moving at the same speed? \_\_\_\_\_
2. Calculate the average speed for Runner 2 in graph B.
3. What is the total distance for Runner 2 in Graph A? \_\_\_\_\_
4. In Graph B, about how long did it take for Runner 1 to travel between 10 and 20 yards? \_\_\_\_\_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

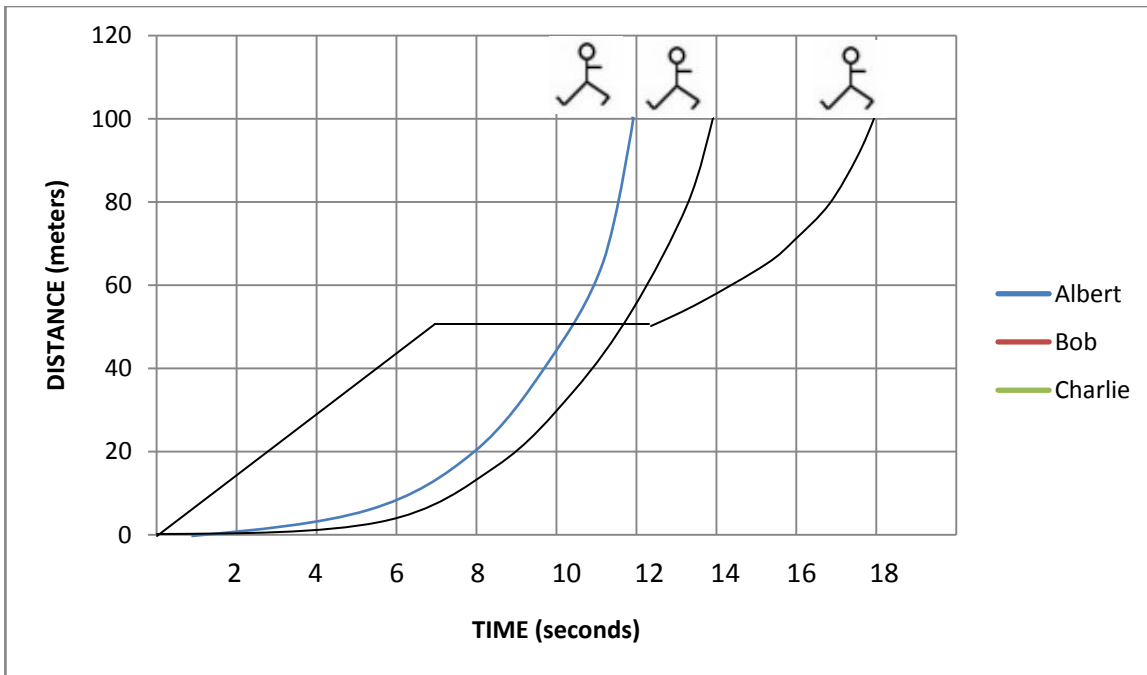


Graph A matches description \_\_\_\_\_ because \_\_\_\_\_.

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 \_\_\_\_\_