Physical Science Unit 5 Assessment Prep

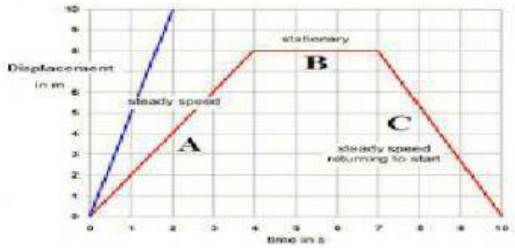
	Distance (meters)	Time (seconds)
Xavier	850	90
Genisia	920	85
Jamarion	900	92
Jason	880	84

Use the chart above to answer the following questions:

1. What was Xavier's speed? _____ Genisia's speed? _____

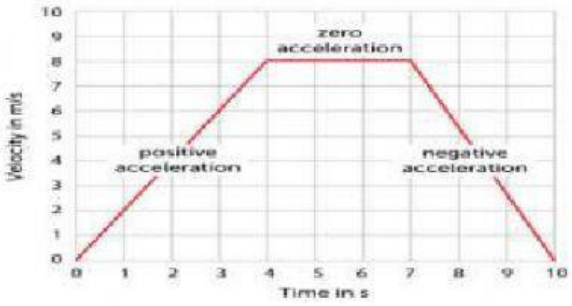
   Jamarion's speed? _____ Jason's speed? _____

2. Who had the fastest average speed during the race? _____



Use the graph above to answer the following questions:

3. How far is the object from the starting point at t = 4 seconds?
4. What is the velocity of the object at t = 2 seconds?
5. During which of the time intervals is the object speeding up?
   - Slowing down? - Maintaining constant speed?
6. How far has the object been displaced after 5 seconds? _____ 10 seconds? _____



Use the graph above to answer the following questions:

7. What is the acceleration of the car at t = 6 seconds? _____
8. What is the acceleration of the car from 7 seconds to 9 seconds? _____

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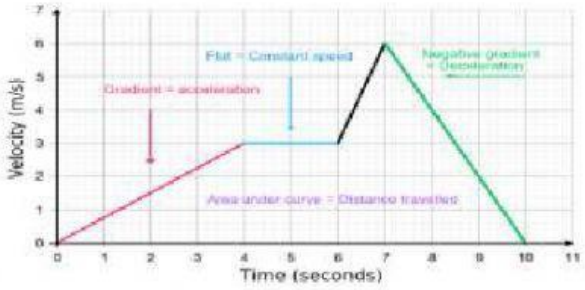
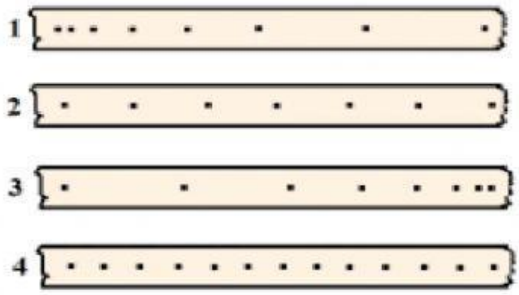


Use the graph above to answer the following questions:

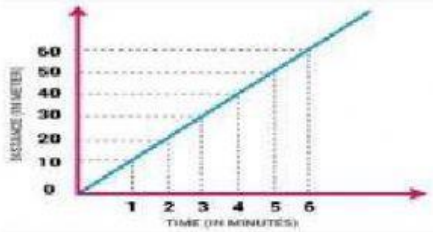
9. In which section of the graph is the average velocity the greatest?
10. In which section of the graph is the acceleration the greatest? _____ Deceleration? _____
11. At which time on the graph is the object moving at a constant velocity?

The following graph is a ticker tape graph. The farther apart the dots the faster the object is going. The closer the objects are the slower the object is going.



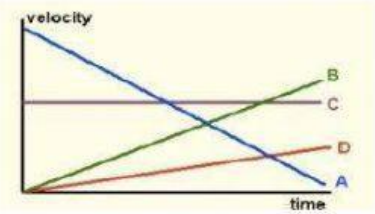
Use the graph above to answer the following questions:

12. In which section(s) of the graph is the object speeding up?
13. In which section(s) of the graph is the object maintaining constant speed?
14. In which section(s) of the graph is the object going the slowest?



Use the graph above to answer the following questions:

15. The object is traveling at a _____ speed of _____



16. Which object above has the greatest acceleration?

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17. What two factors do you need to consider when calculating an objects speed?

18. How far will an object travel if it has a constant velocity of 55 m/s and travels for 11.0 seconds?

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