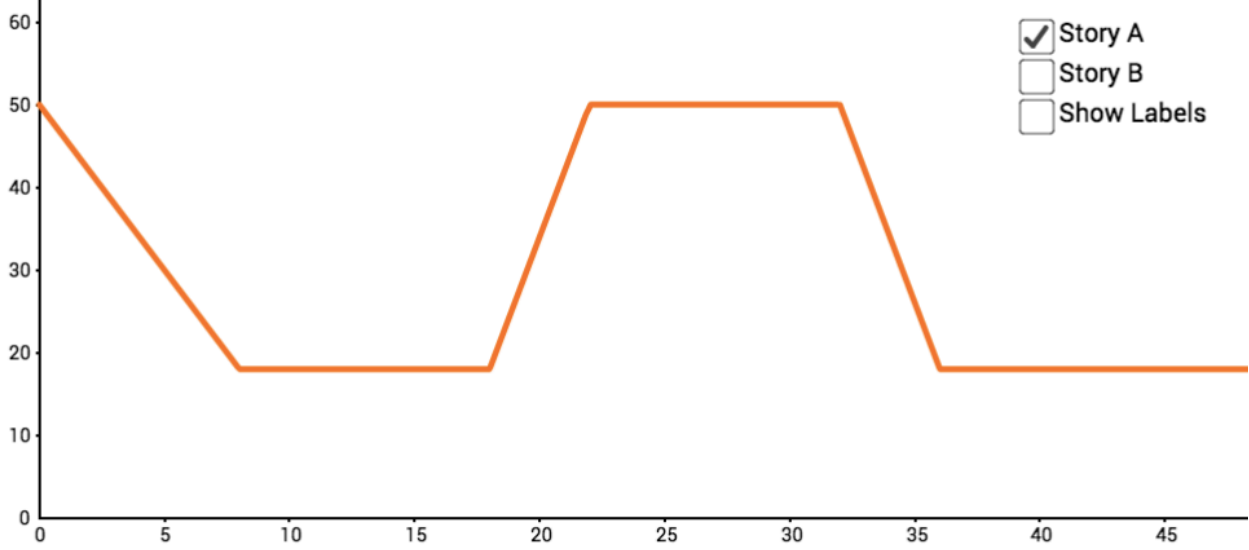


Turn in this Study Guide on the day of your quiz in order to earn +5 EXTRA CREDIT on the quiz.

1) A hiker's elevation-vs-time graph is shown below. He hikes at a constant speed the entire time. Write a story to describe the hike.




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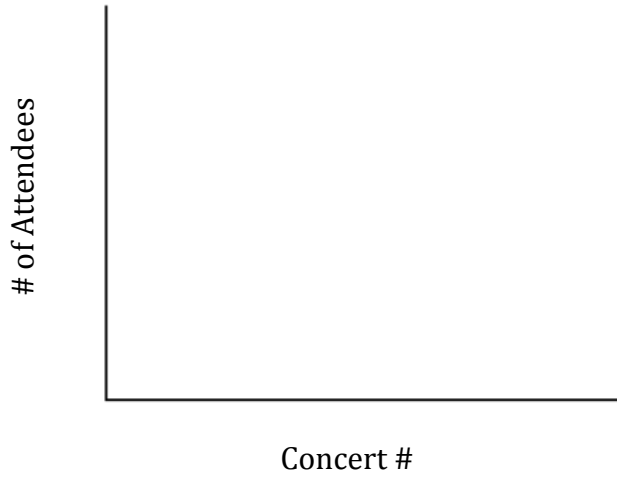
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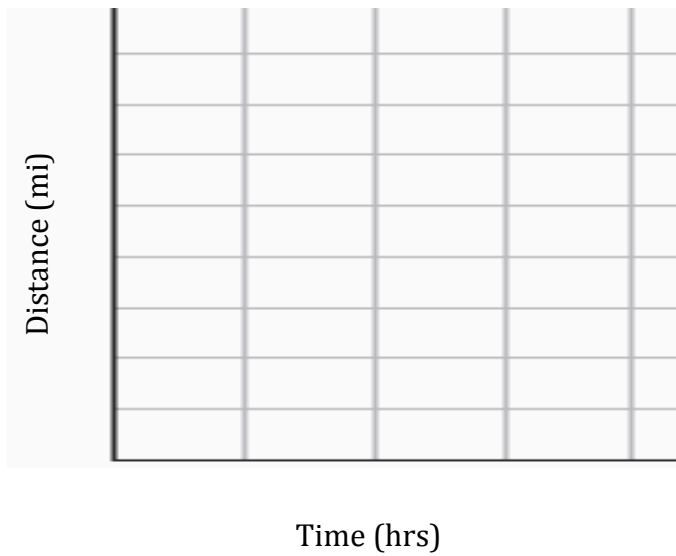
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2) The table shows the number of people who attended concerts as a band started to get famous. Sketch a graph with no numbers that shows the general pattern of the number of people.  
 (Hint: Will it be linear, quadratic, or exponential?)

Concert	Attendees
1	505
2	1002
3	2027
4	4700



3) Car A and Car B are traveling to get home. Car A starts from 150 miles away and travels at a constant speed of 50mph. Car B starts from 200 miles away and travels at a constant speed of 75mph.



a. When does Car B catch up to Car A? At what distance away from home?

b. How long will it take for Car A to reach home?

4) A skydiver gets in an airplane which climbs at a constant speed for 10min to 10,000 ft. The skydiver spends 2 minutes at this height gathering her courage. Then, she jumps out of the plane in free fall down 8,000 ft. At 2,000 ft, she deploys her parachute and glides at a constant rate back to the ground. Sketch an elevation-vs-time graph for the path of the skydiver.

