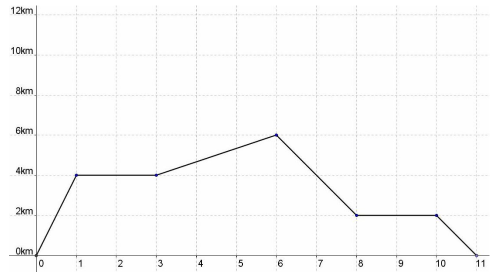
Distance Time graphs
Name

Jim sets off from home at 9am and an hour later he is at A-town which is 20 miles away. He stays in A-town until 12pm before driving for 2hrs to B-town which is 40 miles away. After stopping at B-town for 30 minutes he drives directly home on the same route and arrives there at 5pm. Draw a time distance graph to represent his journey. (The distance he is away from home). Use the x axis for time and the y axis for the distance.



The graph above shows a distance/time graph for Sue's day out. The y axis shows the distance she is from home and the x axis shows the number of hours that have passed since she left. Use the graph to answer the following questions.

(a) What was she doing between 1 and 3 hours?
(b) How far did she travel in the first 3 hours?
(c) What was her average speed in the first hour?
(d) How far did she travel altogether?
(e) How long did she spend resting?
(f) What was the maximum distance she was from her home
(g) What fraction of the total time was spent moving?
(h) What was her average speed in the last hour?
(i) What was her average speed overall? (excluding stops)
(j) Which section was she travelling the slowest on? How can you tell?
(k) Do you think Sue enjoyed her day out?

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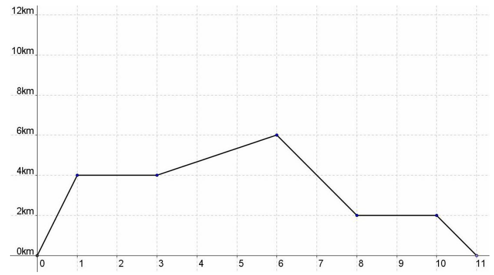

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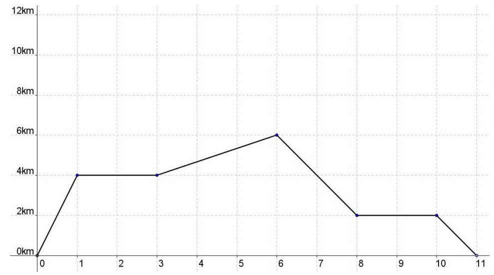

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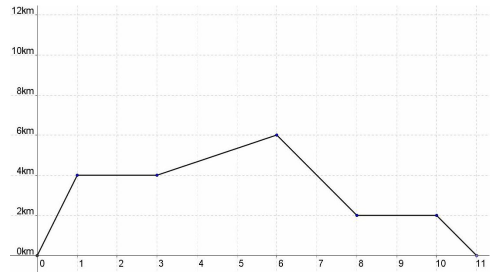

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