

The Stories of Graphs

One sunny morning at 8 am Dave set off from his home. He'd had enough of his video games and wanted some fresh air.

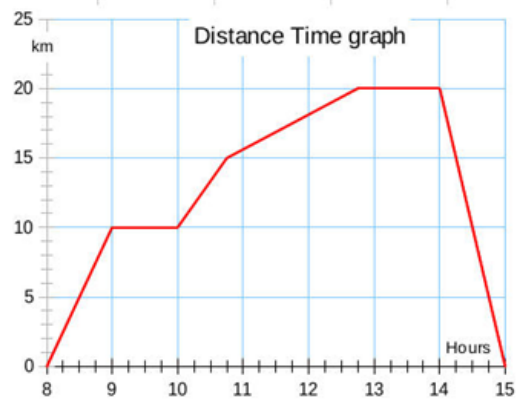
The sun was shining so he decided to run to the local park. He travelled at 10 km/hour which he was pretty happy with, his training was obviously paying off.

When he got to the park he spotted a nice bench so he sat down and rested for an hour.

By then he realised he was late to meet Kevin so he took a bus for the first 5 km of his journey and then walked the next 5 km to the cafe. He got there just in time at 12.45pm.

Dave and Kevin chatted in the cafe for just over an hour, enjoying their ice creams.

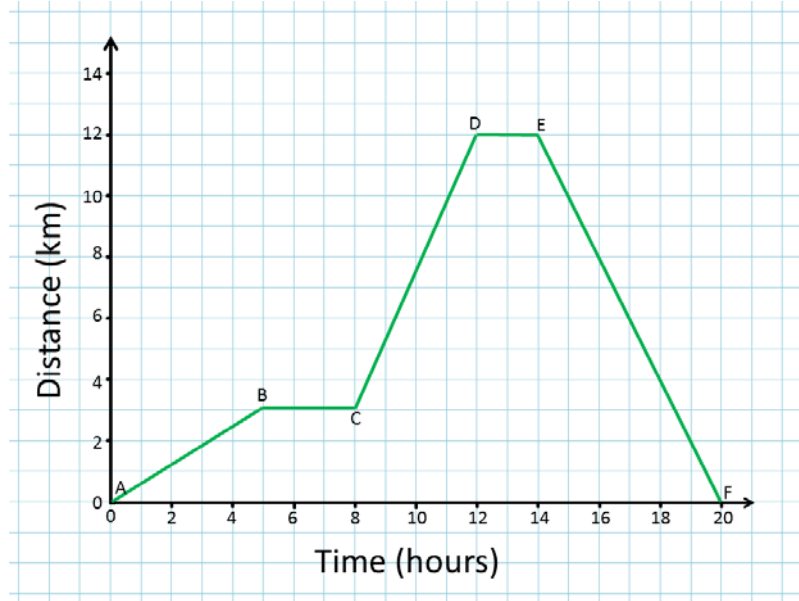
By then Dave was exhausted so he took a taxi home. It was a bit slow but it still travelled at 20 km/h, much faster than he could have walked.



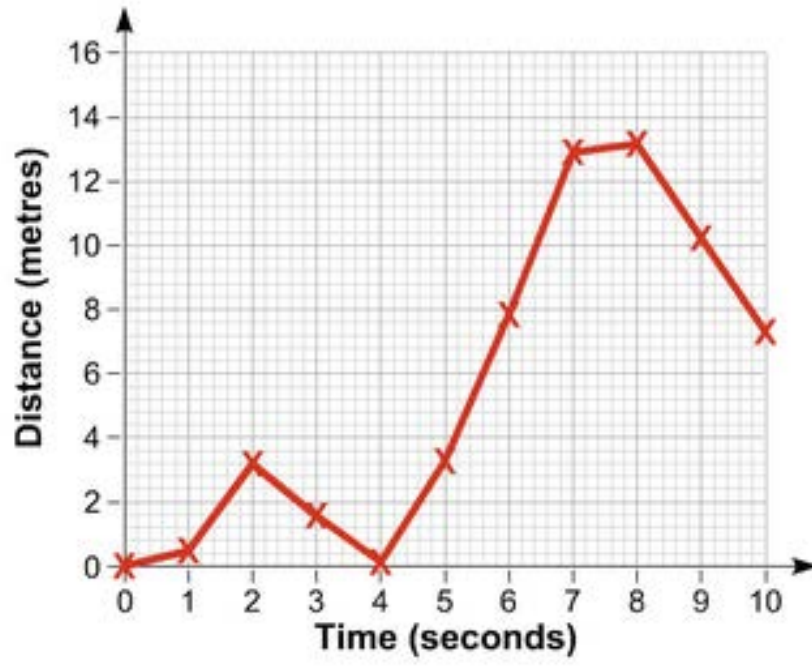
The graph tells us a story, the story of a journey.

- 1) Draw arrows to show which bits of the story connect to each paragraph.
- 2) How can you tell when Dave stopped just by looking at the graph?
- 3) How can you work out the speed Dave travelled for different parts of his journey?
- 4) How could you make a guess about how he was travelling for different parts of his journey? (e.g. walking, running, taking a bus, taking a taxi etc.)
- 5) How can you tell when he starts heading back home?

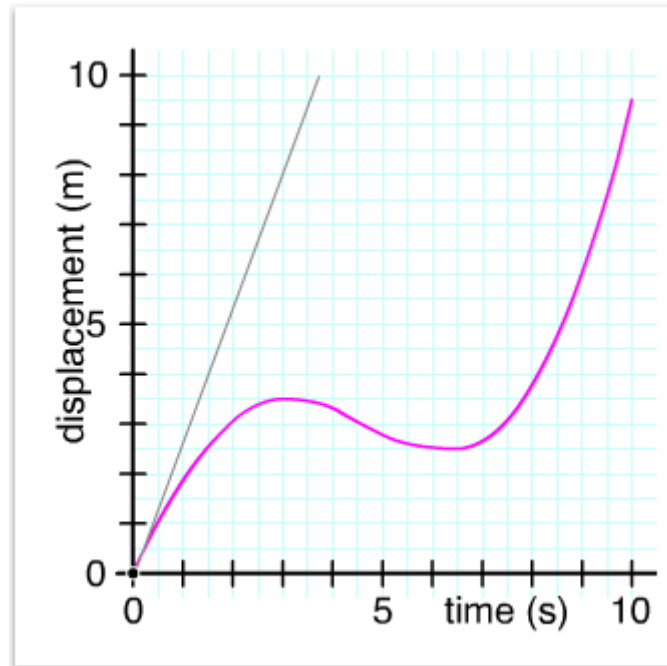
Look at the graph below. What could the story of this graph be?
Include as much detail as possible.



How about this one?



[Extension] How about this one? (Just the curved line)



Now draw your own distance/time graph for a journey and tell its story.

Use a computer or paper to create a presentation to explain your journey to the class.

(You could even act out the journey or get the teacher to while you present it)

Remember to include as much detail as possible. (Timings, speeds, direction, mode of transport etc.)

Use the space below to make any notes you need to.

