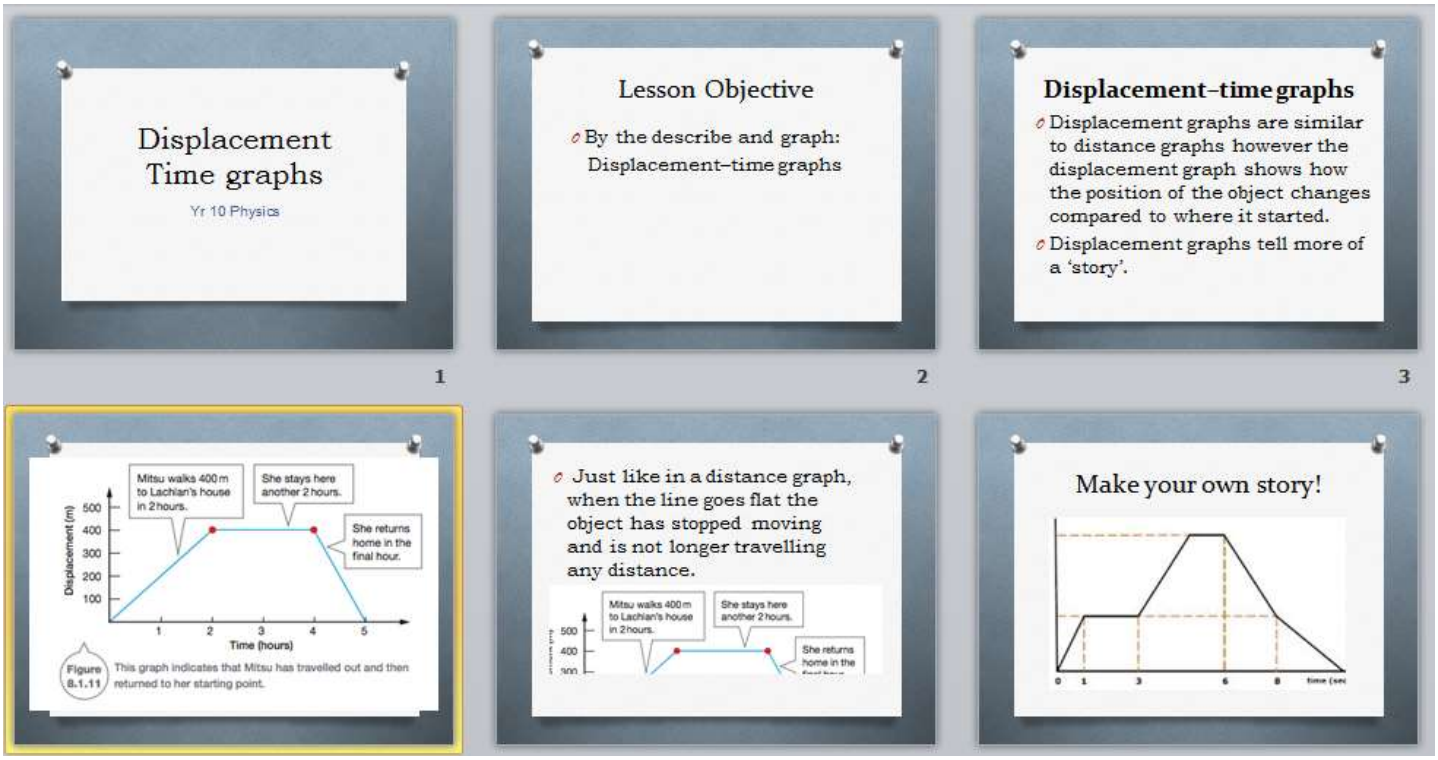
Lesson 5: **Displacement-Time Graphs**



Matching Activity (next pages)

(i) Find the story that matches the graph.
(ii) Put the story in the right order to match what happens in the graph.
(iii) Label the graph with the correct letter for the matching part of the story.

For Example:

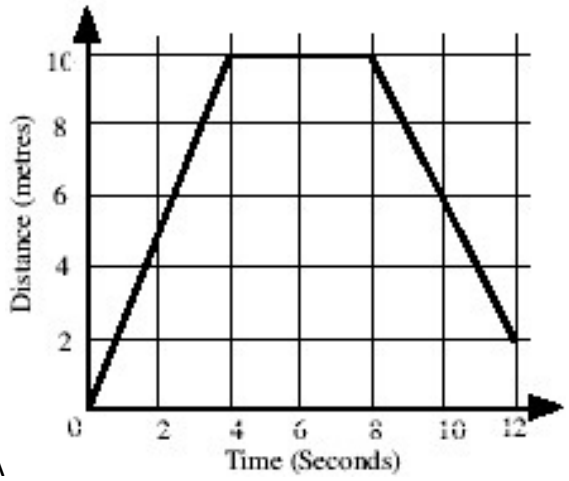
For graph A, the first 4 seconds, 10 meters is travelled.
Then there is a rest for 4 seconds.
In the last 4 seconds, 8 meters is travelled.

This has to be scenario 4

<u>Tommy riding his bike</u>
The statements are in the right order, but they won't always be!!

Graphs

A



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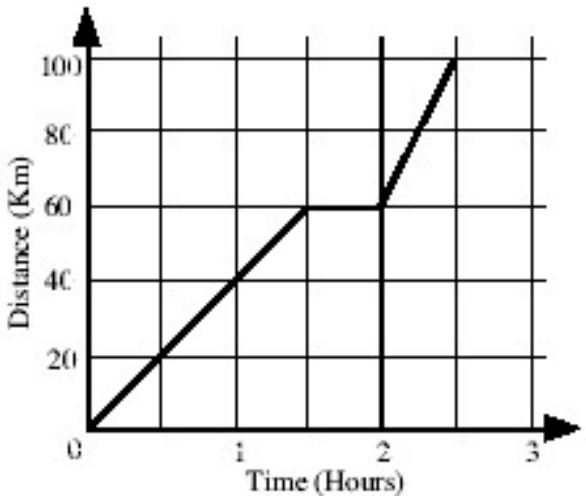

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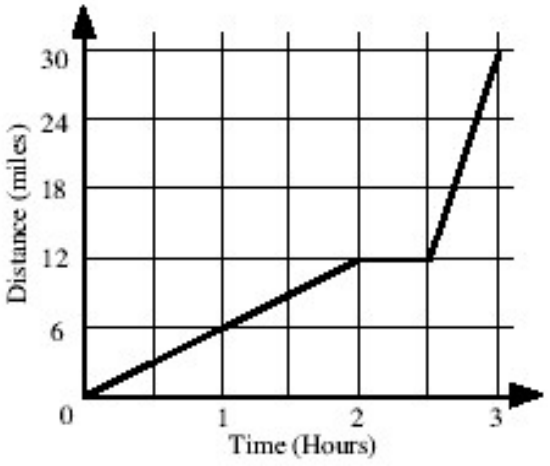

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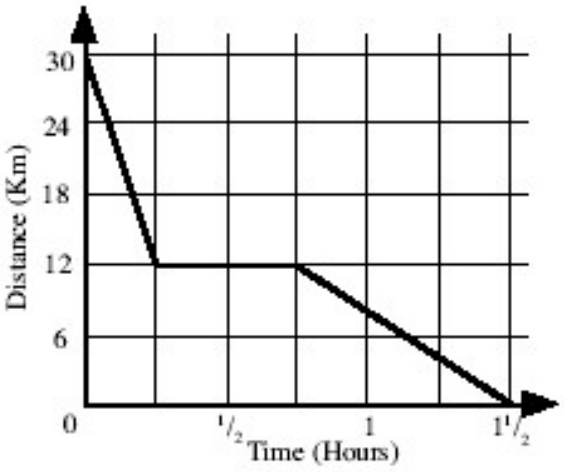

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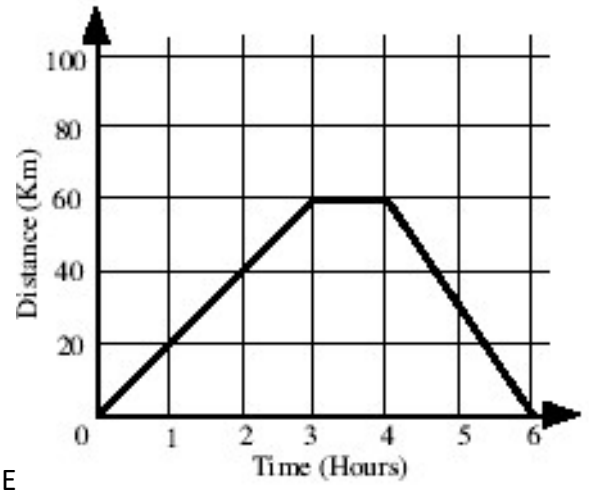

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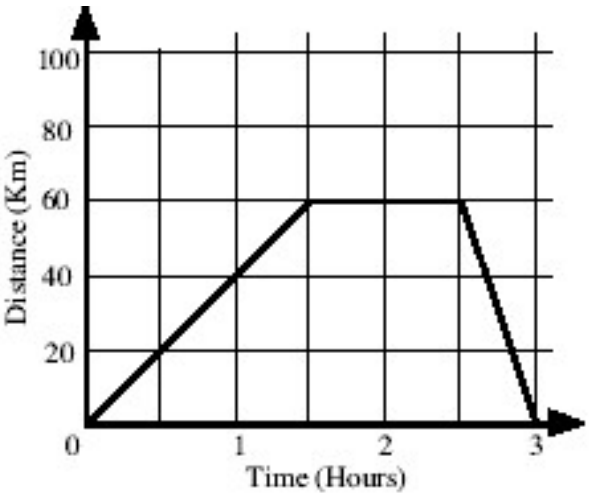
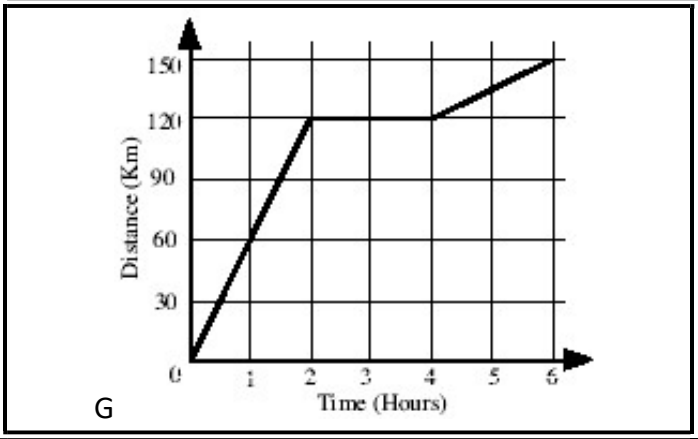


Matching Stories

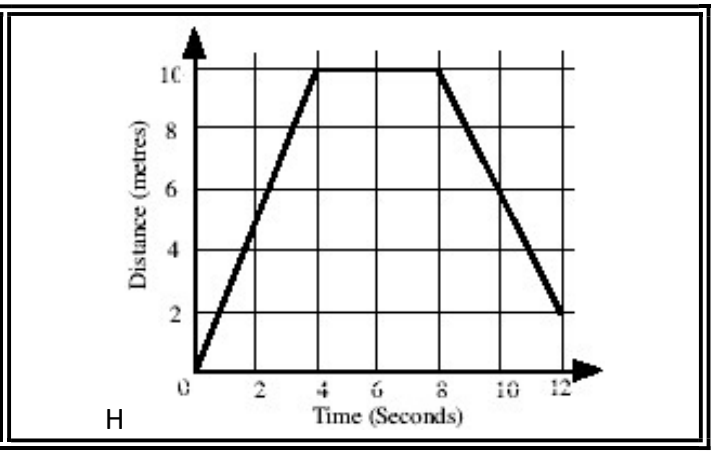
1 Elvis is driving. A. Elvis stops for an hour. --- B. Elvis returns home travelling 60 kilometres in 2 hours. --- C. Elvis takes 3 hours to drive to his friend's house 60 kilometres away.	**2 Nora is cycling.** **A.** Finally, Nora cycles towards home uphill for 12km at a slower pace. --- B. Nora stops at the bottom of the hill for half an hour for a drink. --- C. Nora cycles towards home downhill for 18km, over 15 minutes.
3 John cycles away from home. A. John stops to rest for 30 minutes. --- B. John cycles uphill for 2 hours travelling across 12 miles, away from home. --- C. John cycles downhill for away from home for 18miles in half an hour.	**4 Tommy is riding his bike.** A. Tommy rides his bike up the pavement away from home for 10 metres, over 4 seconds. --- B. Tommy takes 4 seconds to turn around. --- C. Tommy hits a bump and falls off his bike when he is 2metres from home
5 A coach journey. A. The coach stops for half an hour. --- B. The coach travels for 30 minutes and reaches Worcester 40 km later. --- C. The coach leaves the station at and travels 60km, over 1 ½ hours.	**6 A bus journey.** A. The bus travels back to school and arrives back at midday. --- B. A bus leaves school at 9am and gets to its destination at 10.30am. --- C. The children look around the museum for an hour

Extension:

Describe each journey in the real life graphs below. Choose what they could be about.



G



H

Journey G

Journey H

Drawing a Real Life Graph

Use the grid below to draw a graph of Fred's train journey:

- Fred goes on a train 1 hour, from Hull to Leeds, covering 96km.
- Fred stops in Leeds and sits down in a cafe for 3 hours, talking to his Grandma.
- Fred returns to Hull on a slow train taking 2 hours.