

12/08

## Representing Motion

#5

### Agenda

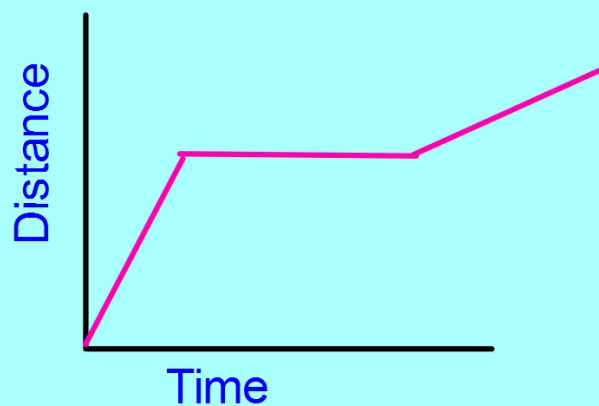
- entrance task
- Walk/run graph
- graphing Motion.

This graph shows three motion events.

Write a short story that this graph represents.

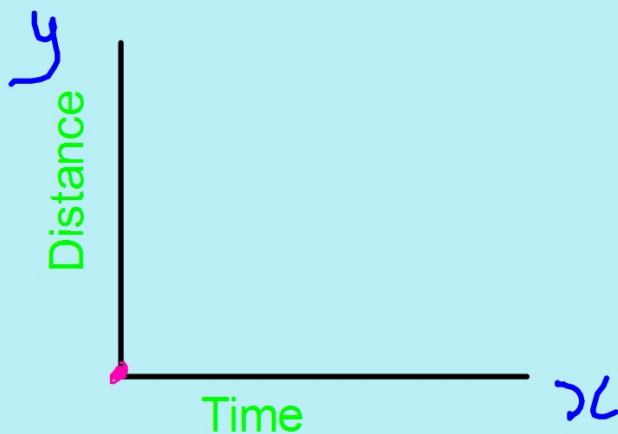


Figure 1



**Learning Target:** I can use distance Vs time graphs to describe the speeds of moving objects.

Graphing distance against time  
can tell you about a journey

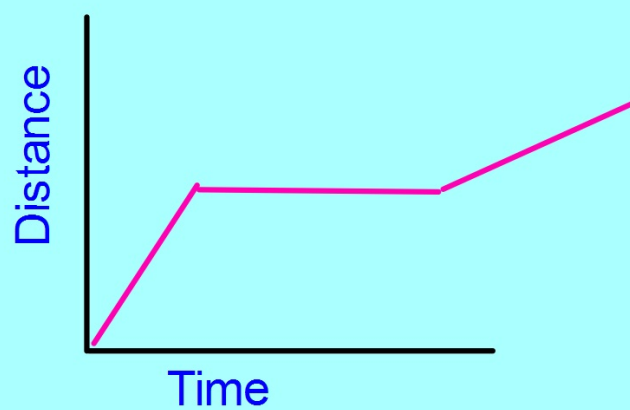


### Graphs need

1. Title
2. Labeled axis with units
3. Even intervals
4. Data points
5. Ruler
- 6 pencil

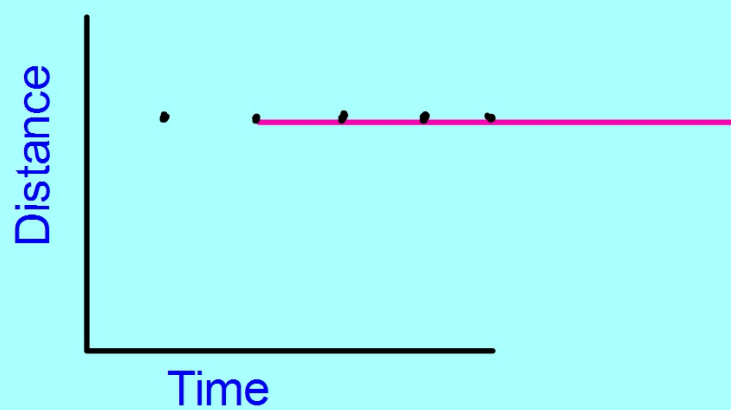
**Learning Target:** I can use distance Vs time graphs to describe the speeds of moving objects.

This graph shows three motion events.



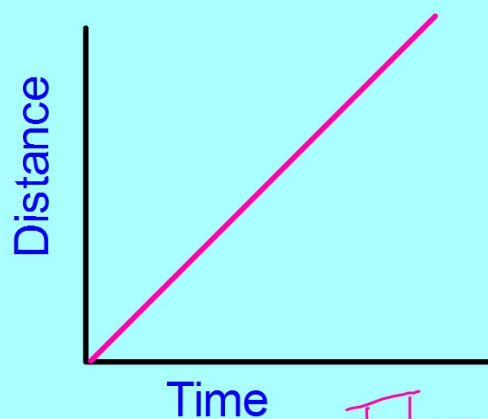
**Learning Target:** I can use distance Vs time graphs to describe the speeds of moving objects.

This object is not moving



**Learning Target:** I can use distance Vs time graphs to describe the speeds of moving objects.

This object is moving at a constant speed (Avg speed)

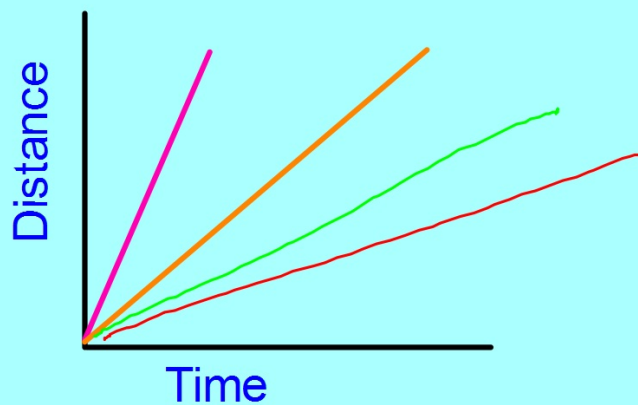


The steeper the line  
The faster the motion

Learning Target: I can use distance Vs time graphs to describe the speeds of moving objects.

You may even see a double line graph like this one!

The pink line is steeper so that object moved faster



Learning Target: I can use distance Vs time graphs to describe the speeds of moving objects.

## CREATE A MOTION STORY

Make up a motion story for another student to graph.

Note: Make a graph of your story to make sure you have included enough information to complete the graph.

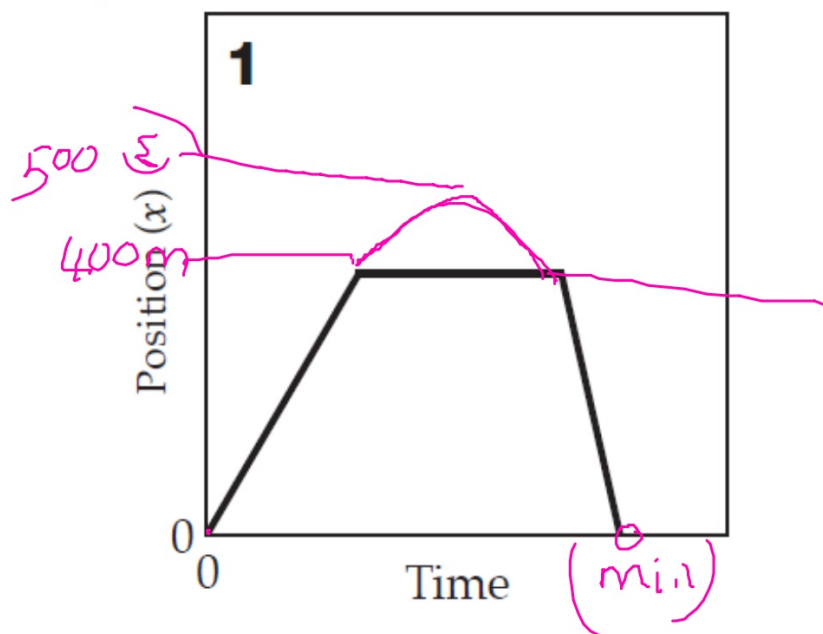
### Story 1

## In your journals

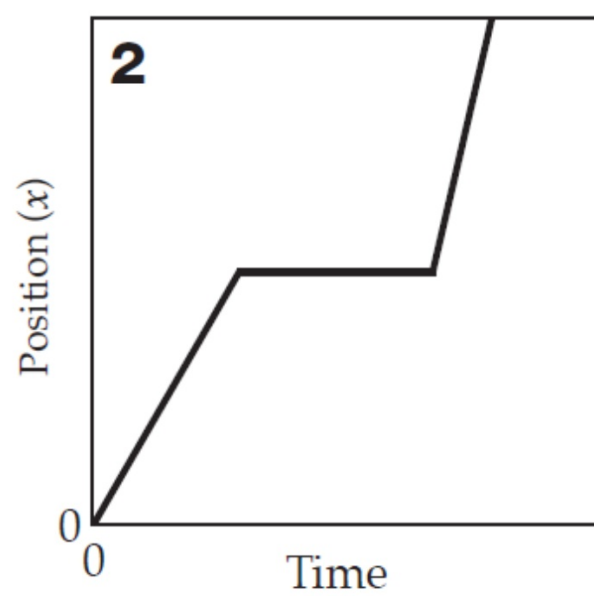
### Graph of story 1

[illegible]

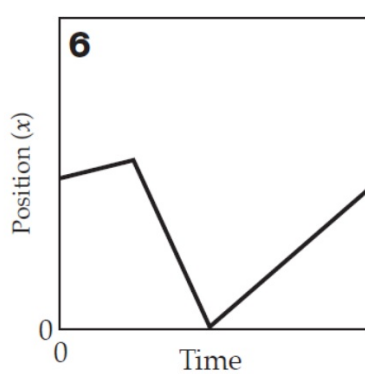
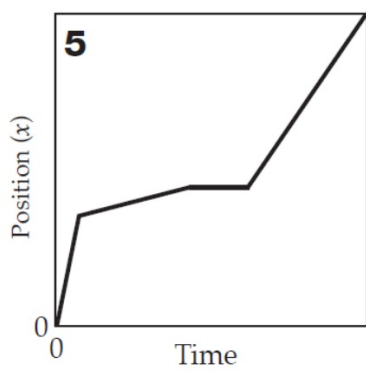
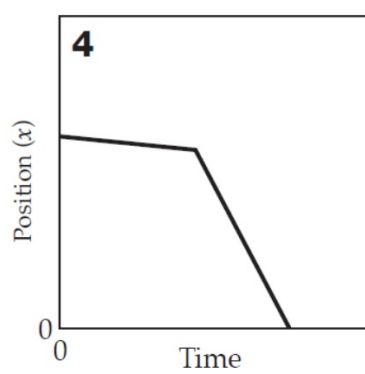
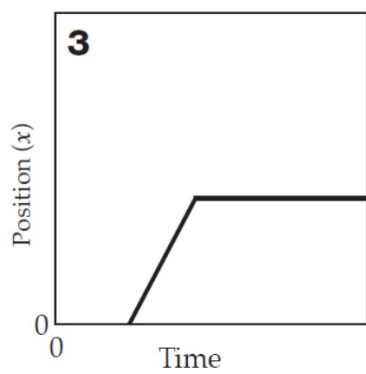
## Position graph





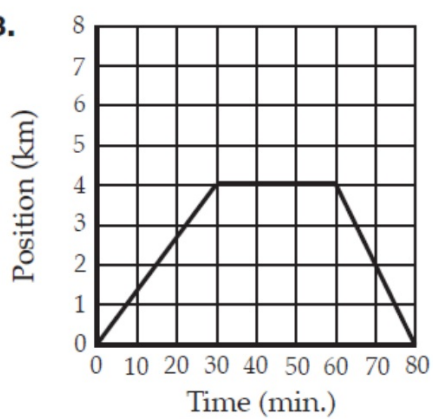


Write a story on the white board. Choose any graph.



**What motion story could go with this graph?**

**3.**



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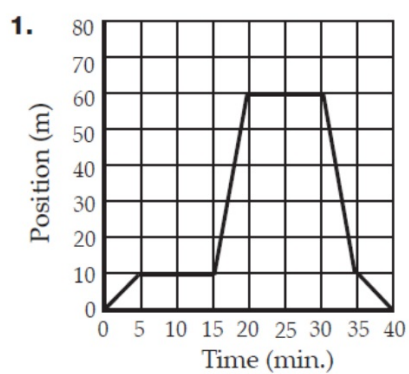
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Make up a story to go with each of these motion graphs.



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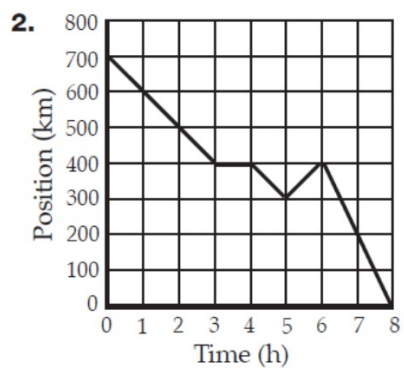
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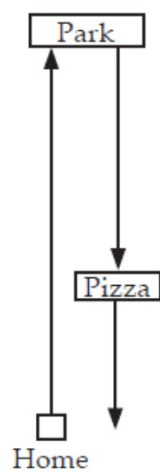
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## **Fossweb Choose a Motion Story**

**[http://www.fossweb.com/modulesMS/kit\\_multimedia/ForceandMotion/motion/motionstory.html](http://www.fossweb.com/modulesMS/kit_multimedia/ForceandMotion/motion/motionstory.html)**



Marybeth and two friends went on a leisurely outing. They walked to the park 1500 meters from Marybeth's house.

They watched the skateboarders awhile.

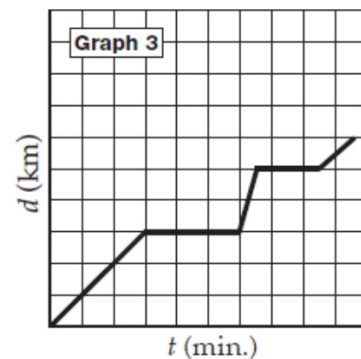
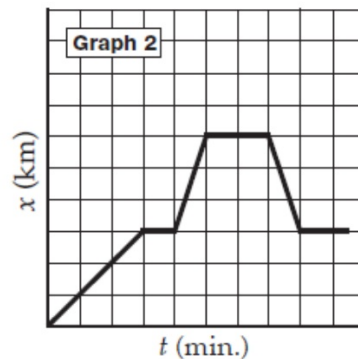
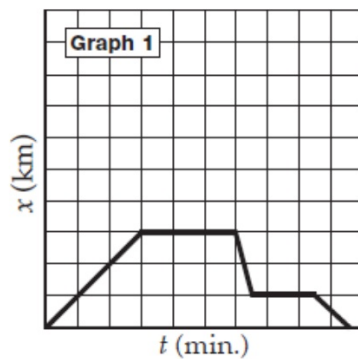
Then they took the bus toward home.

They got off at the pizza shop and shared a pineapple and ham pizza.

They walked the remaining 500 m home.

Marybeth and her two friends made motion graphs of the outing.

Which graph or graphs represent Marybeth's movements during the outing?



Explain which graph or graphs represent Marybeth's movements.