

Graphing Story Project

Part A

Follow your teachers directions to make a graph.

- Draw quadrant I and IV
 - Pick any point on or by the origin or y axis
 - draw a line to the right 4cm long
 - Draw another line segment any direction but backwards 2cm long
 - Each ending point needs to go to the closest gridline
 - Draw another line segment 3-4cm
- Bonus: Draw a fourth line segment any direction except backwards
Label the points A, B, C, D and possibly E.

Part B

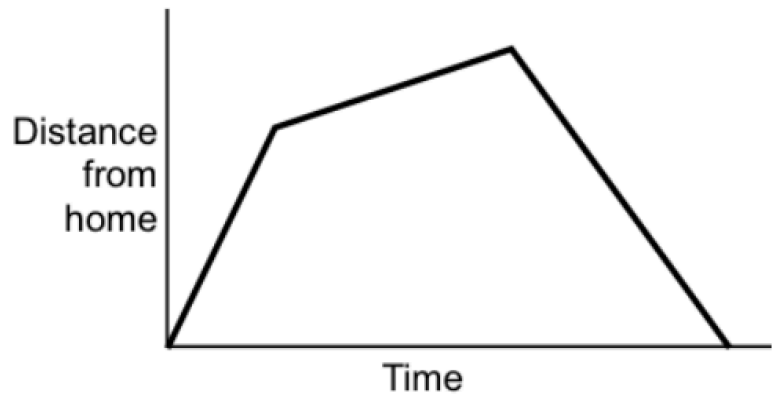
As a table group, select the graphing story on the left that matches the graph on the right.

Matching a Graph to a Story

A. Tom took his dog for a walk to the park. He set off slowly and then increased his pace. At the park Tom turned around and walked slowly back home.

B. Tom rode his bike east from his home up a steep hill. After a while the slope eased off. At the top he raced down the other side.

C. Tom went for a jog. At the end of his road he bumped into a friend and his pace slowed. When Tom left his friend he walked quickly back home.



Part C

Now it is time for you to create your own mathematical graphing story.

Uninterrupted think time: Create your own story based on the graph you created.

Label your axes to represent your story

Write at 2 sentences to describe what is happening during each line segment.

Part D

Share your story with your partner and pick the best storyline for your joint project.

Use the graph you and your partner selected to:

1. List the ordered pairs of the graph.
2. Find the slope for each line segment.
3. Find the function of each line segment

Part E

Share your math and story for your final project

Rewrite your story by adding the slope and function data to the scenario and share your story in an engaging way. You can use any tool to share your final story. Use the rubric below to guide your work.

Criteria	1	2-3	4-5	Score
Mathematical Content	Each section of the story might be supported the slope and function component.	Each section of the story might be supported by the slope and function component.	Each section of the story is supported the slope and function component.	
Creative story to accompany graph	Story might not be aligned to the graph.	Story is correct and somewhat aligned to the graph.	Story is correct and directly aligned to the graph.	
Multimedia	Project does not include graphics or graphics are unrelated to the math content and might be distracting.	Project is somewhat creative and might contain graphics that support understanding of math content but more could be added. May contain some graphics that are distracting and do not support the math content.	Project is creative and contains graphics that are directly related to the math content and support understanding of the math topic.	
Total				