

Chapter 4 An Introduction to Functions

Journal Entry:

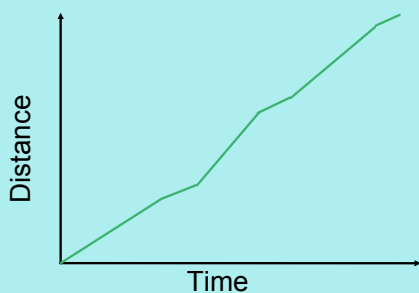
-What is the amount of money that you earn dependent on? What does dependent mean?

-What does it mean for something to be continuous? How does this relate to a graph of a continuous function?

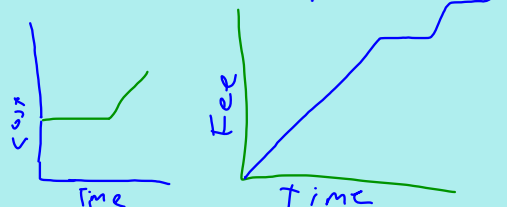
Section 4-1 Using Graphs to Relate Two Quantities

Students will be able to represent
mathematical relationships using graphs.

Graphs can be used to visually represent a relationship between two variables as they each change.



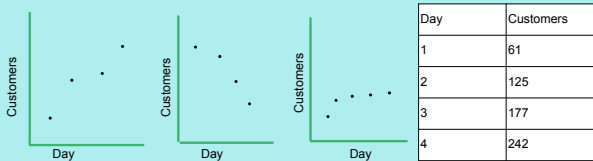
If you pay for a cell phone a flat fee for the first 500 mins and then \$.15 per min after that, what would the graph look like? Label it correctly.



-What are the variables? How are they related?

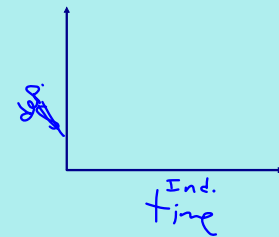
Data in a table can be displayed in a graph to show the relationship.

A new car wash opens in Howard and the number of customers is in the table each day. Which graph could represent it?



When putting information into a graph, you will have to decide which ones go on which axis. When one quantity depends on another, show the independent on the horizontal and the dependent on the vertical.

Distance/Time

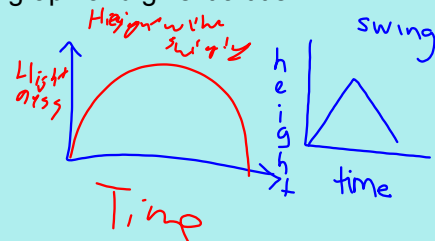


Graphing Stories:

Look at the labels for your graph before the video starts. Watch the 15 second video and then again in slow motion. Fill out your graph. Compare.

Draw the graph

You are swinging on a playground swing. As you swing, you go higher into the air. Then you slow until you stop. What sketch of a graph could represent how your height from the ground might change over time? Label your graph and give it a title.



Balloon Graphs (Choose 1):

-Sketch a graph of what it might look like if you were to compare how long it took you to blow up a balloon until it popped with the volume of the balloon.

-Sketch a graph of what it might look like if you were to compare the distance of a balloon from the ground when inflated and let go to the time it takes to be out of air.

Label your graphs and give it a title. Work with a partner.

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#5, 7, 8 - 20 evens, 29

