WARMUP 9/ $\left(\sqrt{(4\times4)^2 - 3}\right)$

Created by: Cayden Leslie

9/ $(9 + 5 - 4) + 3$

Created by: Rafael Rosaly

- A little monkey had 60 peaches.
- On the first day he decided to keep $\frac{3}{4}$ of his peaches. He gave the rest away. Then he ate one.
- On the second day he decided to keep $\frac{7}{11}$ of his peaches. He gave the rest away. Then he ate one.
- On the third day he decided to keep $\frac{5}{9}$ of his peaches. He gave the rest away. Then he ate one.
- On the fourth day he decided to keep $\frac{2}{7}$ of his peaches. He gave the rest away. Then he ate one.
- On the fifth day he decided to keep $\frac{2}{3}$ of his peaches. He gave the rest away. Then he ate one.
- How many did he have left at the end?

45
44
28
27
15
14
4
3
2
1

Collect Warmups, Go over HW

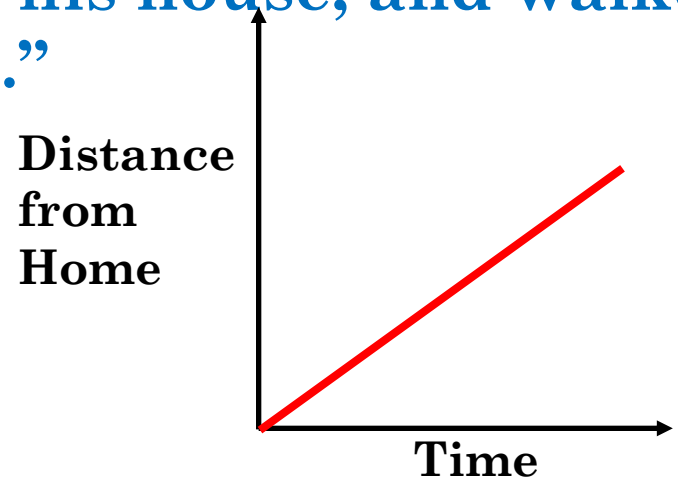
Going over the Quiz

On your whiteboards…

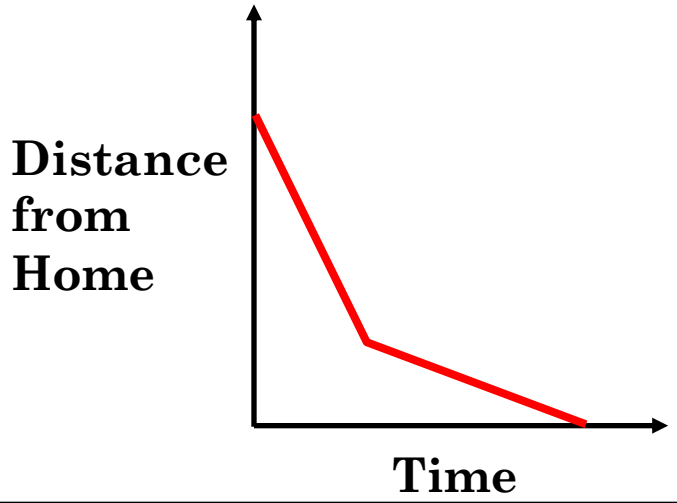
Draw a graph to match each story. For both graphs, your x-axis should be **"Time"** and your y-axis should be **"Distance from home."**

1) **"Tom's house was at the top of a hill. He left his house, and walked down the hill."**
2) **"Tom was at the store. He ran all the way to the bottom of the hill. He then walked slowly up the hill to his house."**

"Tom's house was at the top of a hill. He left his house, and walked down the hill."

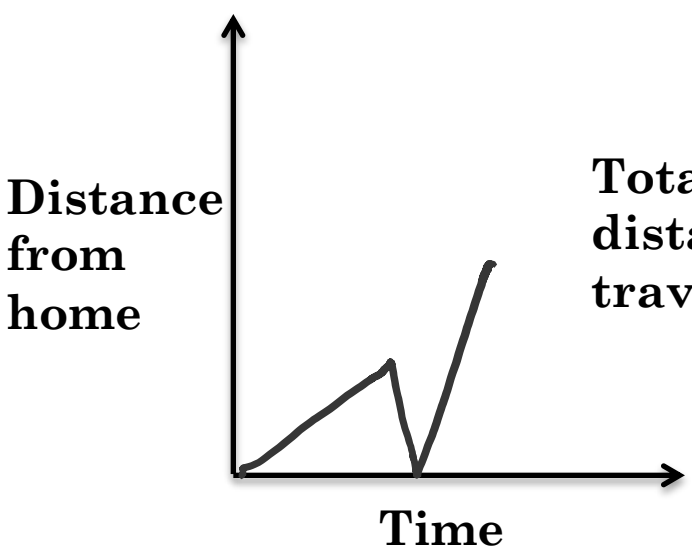


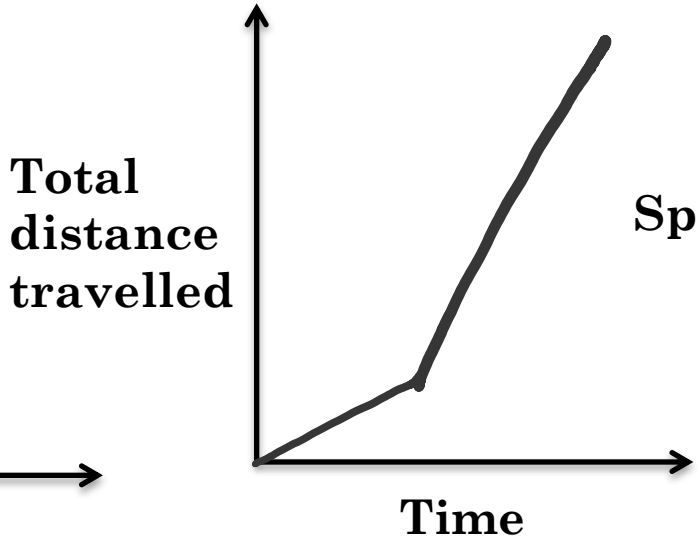
"Tom was at the store. He ran all the way to the bottom of the hill. He then walked slowly up the hill to his house."

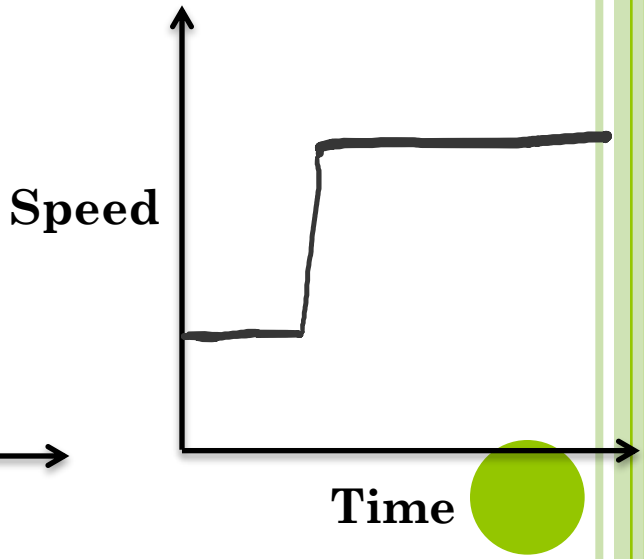


Different y-axis labels

- **"Tom went out for a walk with some friends. He suddenly realized he left his wallet behind. He ran home to get it and then had to run to catch up with the others."**





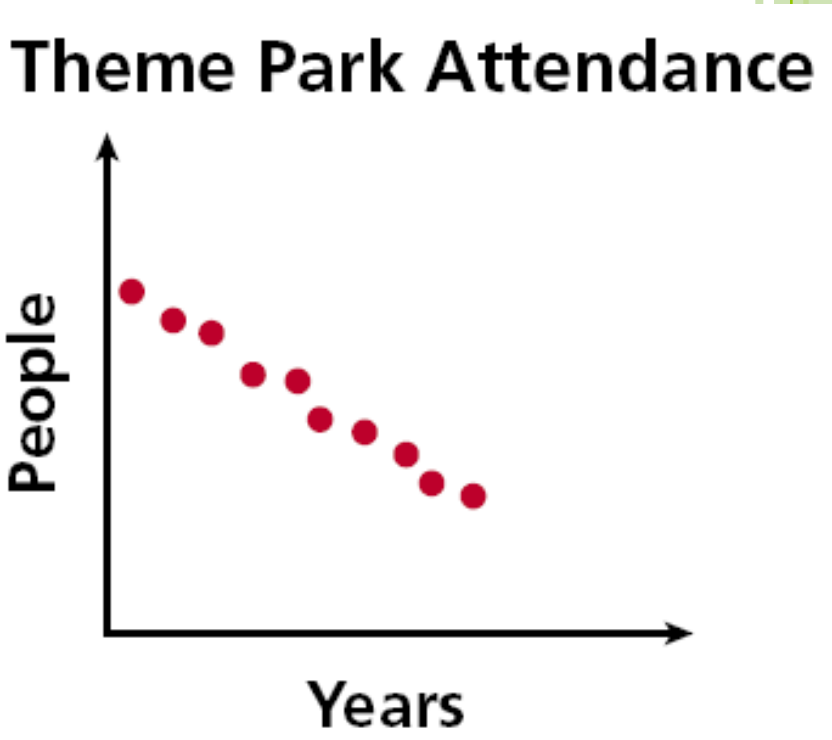


Guided Notes Worksheet

Some graphs are connected lines or curves called **continuous graphs**. Some graphs are only distinct points. They are called **discrete graphs**

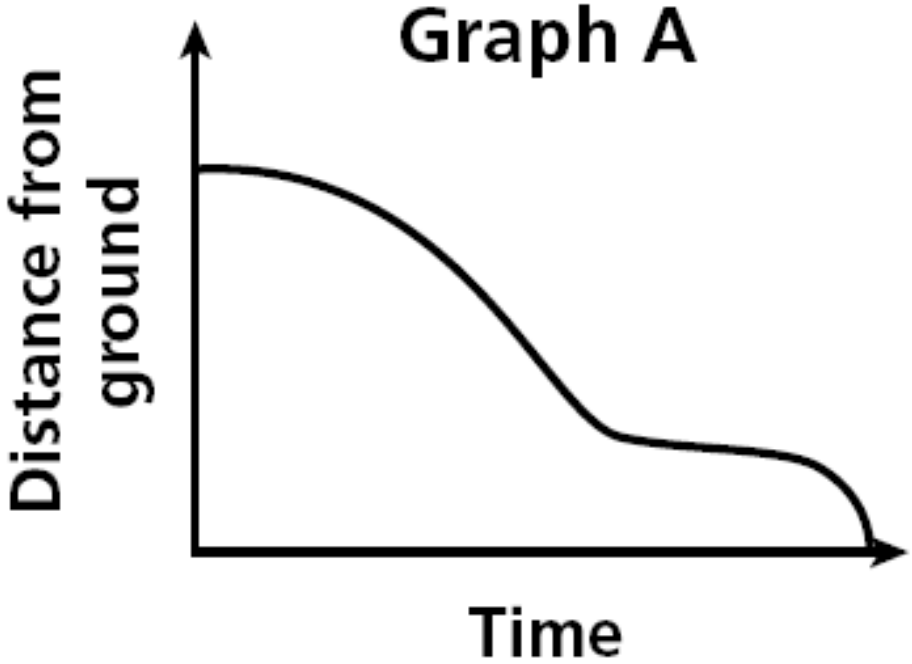
Why is this a Discrete Graph?

The graph on theme park attendance is an example of a discrete graph. It consists of distinct points because each year is distinct and people are counted in whole numbers only. The values between whole numbers are not included, since they have no meaning for the situation.



Why is this a Continuous Graph?

The graph models the situation of a child going down a slide. Graph A represents the child's *distance from the ground* related to time.



For each situation,

A. **Decide what you think the variables would be on the x and y-axis for the graph.**

B. **Then say whether the graph would be <u>continuous</u> or <u>discrete</u>.**

1) **Each customer who enters a store gets 2 free samples of chocolate.**

2) **A gardener records the age of a tree and its height.**

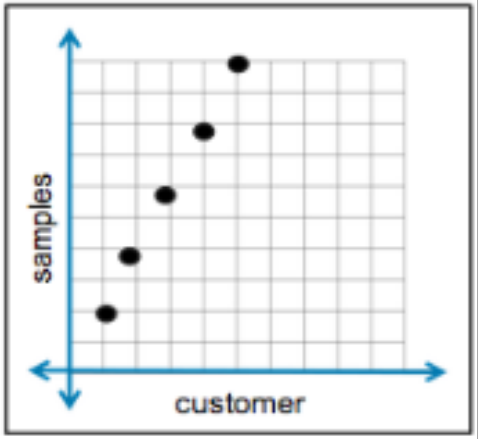
3) **Tickets to a concert cost $30 each.**

samples
customer

1) **Each customer who enters a store gets 2 free samples of chocolate.**

x-axis: # of customers,
y-axis: total # of samples given out

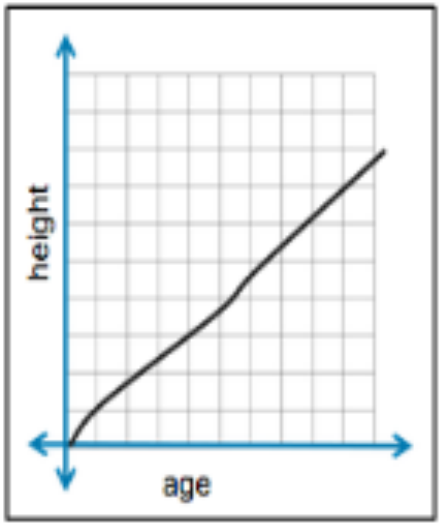
Discrete (fractions don't make sense)



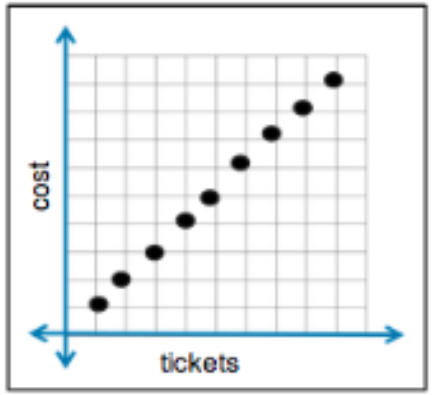
2) **A gardener records the age of a tree and its height.**

x-axis: age of the tree
y-axis: height of the tree

Continuous (fractions would make sense)



3) **Tickets to a concert cost $30 each.**

x-axis: # of tickets bought
y-axis: total cost

Discrete (can't buy part of a ticket)