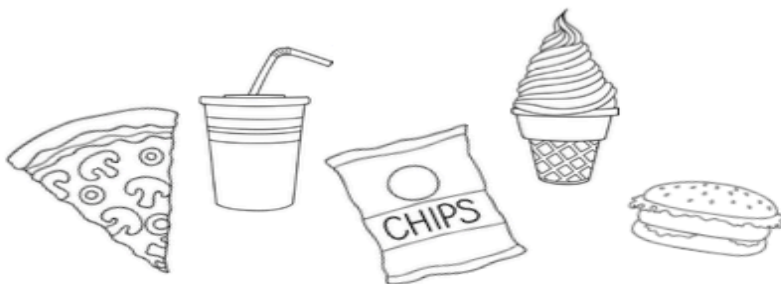
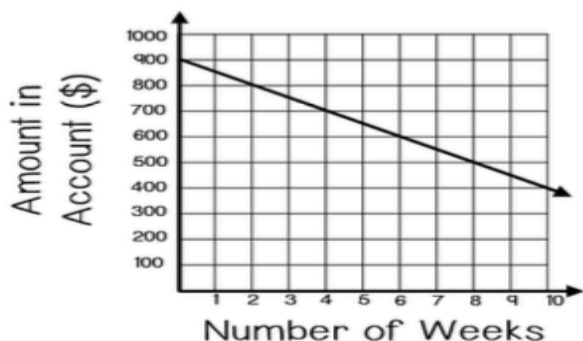


I can determine rate of change and initial values from tables and graphs.

Emily has an account that she uses to pay for her food expenses. The graph below shows the amount in her account based on the number of weeks that have gone by. Use the graph to help you answer the following.

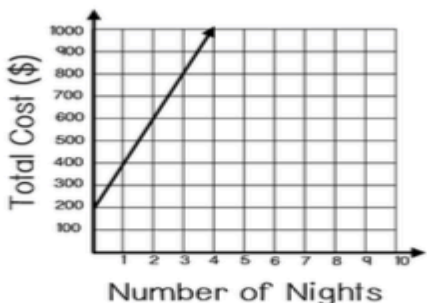


- 1) How much does Emily start with in her account?
- 2) How much is Emily spending each week?
- 3) How many weeks will it take Emily to have used 1/3 of the money in her account?
- 4) After 12 weeks, how much will Emily have in her account?
- 5) Emily's brother spends 1.5 times as much as Emily does on food each week. How much does her brother spend each week?

I can compare properties of functions.

After researching beach houses for an upcoming vacation, Josie found the following options. Each beach house charges a non-refundable deposit and a rate per night.

HOUSE 1: "SHORE THING"



HOUSE 2: "BEACHY KEEN"

$$y = 100 + 249x$$

$y =$ total cost
 $x =$ number of nights

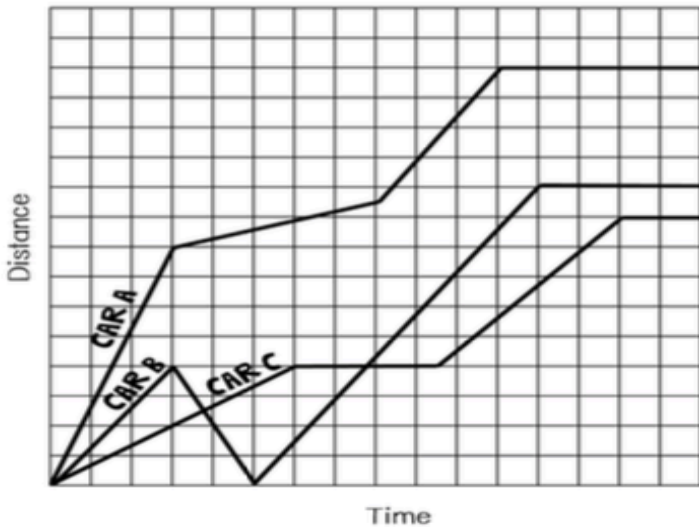
HOUSE 3: "SEAS THE DAY"

x (Number of Nights)	0	1	2	3	4
y (Total Cost)	\$115	\$345	\$575	\$805	\$1,035

- 1) Which beach house charges the highest nightly rate?
- 2) Which beach house charges the highest deposit?
- 3) Which beach house charges the lowest nightly rate?
- 4) Which beach house charges the lowest deposit?
- 5) If Josie's family wants to stay for 6-nights, which beach house would be the least expensive?

I can analyze graphs of functions.

The distance vs. time graph below shows the commute of 3 different cars on their way to work.



- List the cars according to the amount of time it took them to get to work from least to greatest.
- List the cars according to the distance they live from work from least to greatest.
- One of the cars had to slow down from their initial speed when they passed through a school zone. Which car was it?
- One of the cars stopped to have breakfast at a coffee shop on the way. Which car was it?
- What did Car B do that none of the other cars did?

Three runners competed in a race. Use the facts below to sketch a distance vs. time graph on your recording sheet to represent the race. Be sure to label each runner.

RUNNER 1: This runner started out the fastest. Runner #1 pulled a muscle halfway through the race, and had to lie down. Runner #1 did not finish the second half of the race.

RUNNER 2: This runner gradually picked up speed in the beginning. Runner #2 tripped and fell about a third of the way through the race, but he got up and sprinted as fast as he could. Runner #2 finished the race in first place.

RUNNER 3: This runner maintained a steady, fast pace throughout the race. Runner #3 started in second place and moved into first place when Runner #1 had to stop. Runner #3 was passed at the very end by Runner #2. Runner #3 finished in second place.

Match the runner to the function shown.

