## Graphs \& Stories

Today's Learning Targets:
8.2 I can write a story for a graph.
8.3 I can create a graph from a story.


## Unit 8-8.2 \& 8.3

## What story could we write about this graph?



Story: $\qquad$

What story could we write about this graph?


Story: $\qquad$
$\qquad$

## Draw a sketch for the situation.

- A bus accelerates from a stop.
- It drives at a constant speed.
- The bus approaches its next stop.
- It loads people.
- The bus then accelerates away again.



## Draw a sketch for the situation.

You swing back \& forth on a playground swing.


Read the following story. Then sketch a graph that tells the same story. Assume the car will need a very short time to speed up and slow down.

My dad drove me to school this morning. We drove for 10 minutes at about 30 mph . We then slowed to half that speed for the next 5 minutes before stopping at a stoplight for 2 minutes. We got on the highway and drove at 50 mph for 20 minutes. We got off the highway and stopped at a stop sign for a minute. We drove at 20 mph for another 10 minutes, then turned into the school's driveway and stopped.


Story Actions:


My family went on a day trip to the beach. We left at 8 a.m. and drove _, until we reached the highway. We drove , then . When we got
back onto the highway, construction merged traffic into one lane, and we averaged about . Once the traffic cleared, we sped up to $\qquad$ until we reached the beach at noon.

(A)

(1)
A car leaves a rest stop only to be stuck in stand-still traffic a few miles down the road
(B)

(2) The daily profit from a movie
(c)

(D) $\underset{\square}{\square}$
(4)

Membership at a gym costs $\$ 60$ initial payment of $\$ 30$
(E)

(3)

The position of a high school classroom door from 30 min before school starts to the end of 3rd periodA frog's distance from the ground as he is jumping A-_ $\quad$ B-_ $\quad$ C-_ $\quad D_{-} \quad E_{-}$

Distance from home in meters


## Draw a sketch that represents the situation.

A golden retriever puppy was chasing a ball and bringing it back to its owner. On one particular throw, the puppy chased the ball, brought it half way back, and then sat down and stared at a frog before finally picking up the ball and bringing it slowly back to the master. The puppy always sits by the owner until the ball is thrown.
$\qquad$

