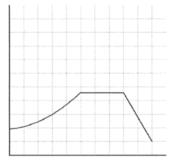
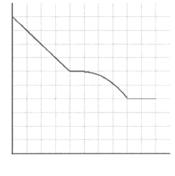
INTERPRETING GRAPHICAL INFORMATION

Introductory Exercises

- The following exercises are designed to help you learn how to *interpret* graphs. (That is, the exercises should help 1. you to understand the *meaning* of graphical information.)
 - (i) Shown below are four graphs that describe how *distance from* your locker changes over time. Below the graphs, you will find three stories describing walking from your locker to your class. *Two* of the stories correspond to *two* of the graphs. Match the graphs with the stories.
 - a) b) Distance from your locker Distance from your locker Time Time d) c) Distance from your locker Distance from your locker Time Time
 - A. I started walking to class then suddenly realized that I had forgotten my notebook. I quickly returned to my locker then walked to class at a constant speed.
 - B. I was rushing to get to class. When I realized that I had plenty of time. I slowed down a little.
 - C. I was walking at a slow, steady rate to class. When I realized that I was late for class, I ran at a fast pace.
- Write stories for each of the following graphs. 2.

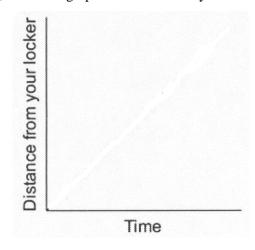




As	you create your story
•	Focus on the rate of
•	Determine whether t

change of each section of the graph the rate of change is constant, varying from fast to slower or slow to faster or zero Yes Criteria Does your story include: the description of an action? (e.g., distance travelled by bicycle, change of height of water in a container, the change of height of a flag on a pole) the starting position of the action? • the ending position of the action? the total time taken for the action? the direction or change for each section of the action? • the time(s) of any changes in direction or changes in the action? . the amount of change and time taken for each section of the action? an interesting story that ties all sections of the graph together?

(iii) Sketch a graph for the third story.

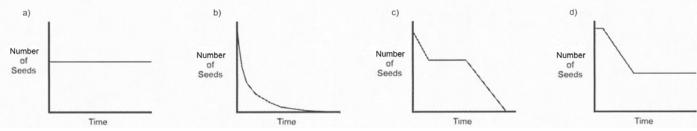


(ii) Write stories for the other two graphs.

3. Sunflower Seed Graphs

lan and his friends were sitting on a deck and eating sunflower seeds. Each person had a bowl with the same number of seeds. The graphs below all show the number of sunflower seeds remaining in the person's bowl over a period of time.

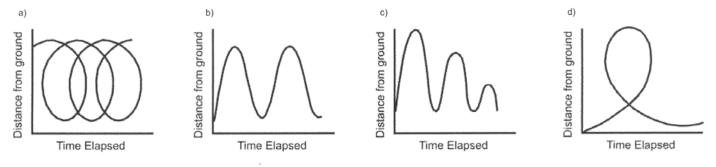
Write sentences that describe what may have happened for each person.



4. Multiple Choice

Indicate which graph matches the statement. Give reasons for your answer.

1. A bicycle valve's distance from the ground as a boy rides at a constant speed.



2. A child swings on a swing, as a parent watches from the front of the swing.

