

# Graphing

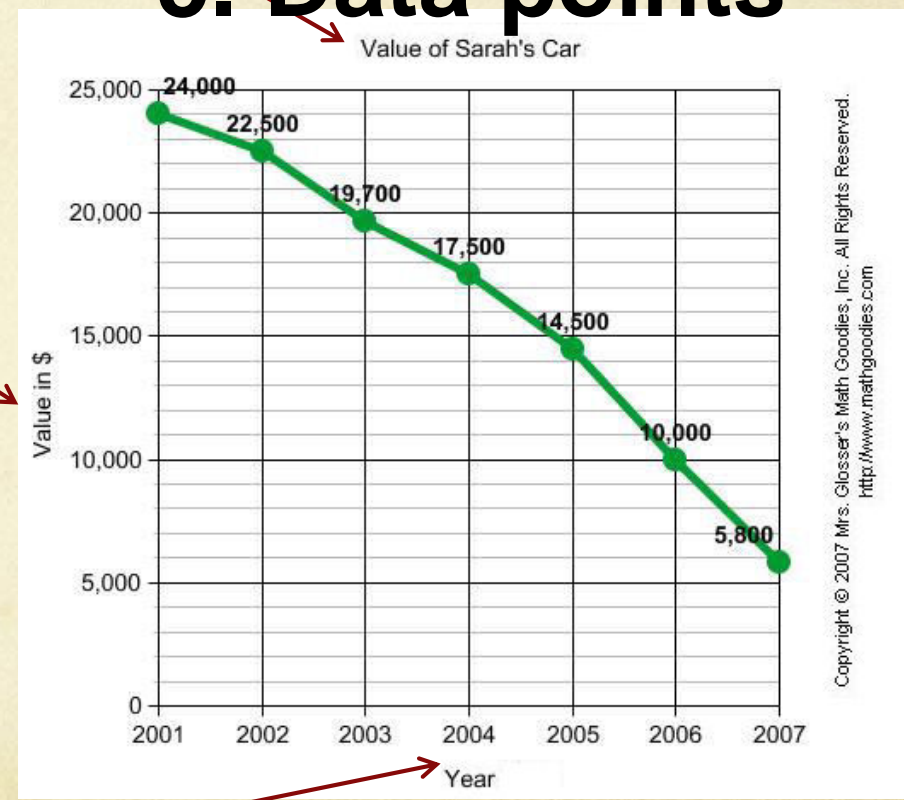
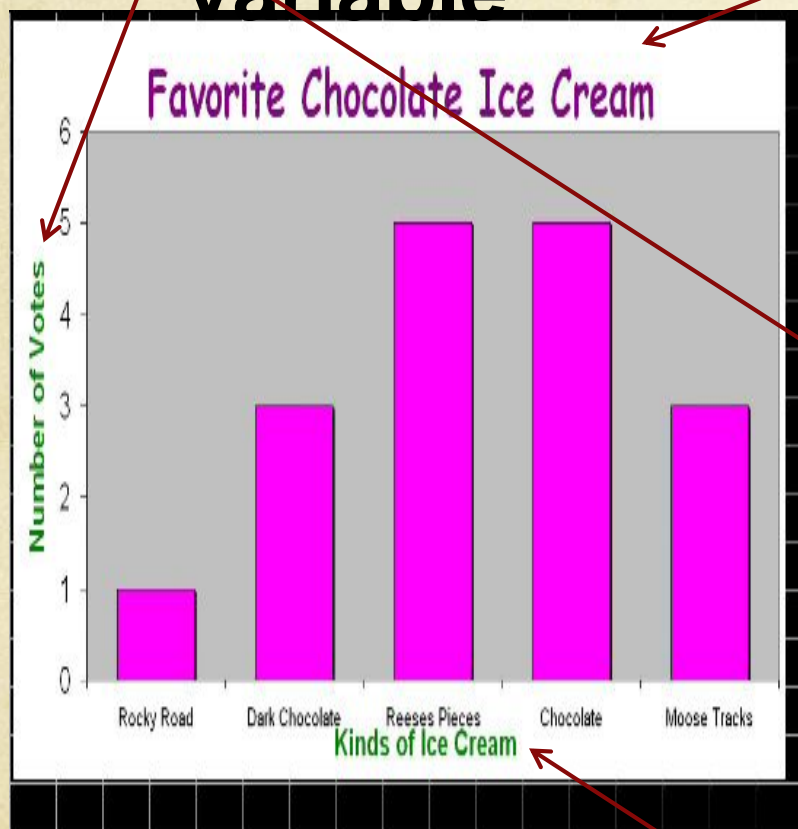
# Obj 7: I can identify the parts of a Graph

3. Y axis label –  
Dependent  
variable

4. X & Y axis  
scales

1. Title

5. Data points



2. X-axis label – independent

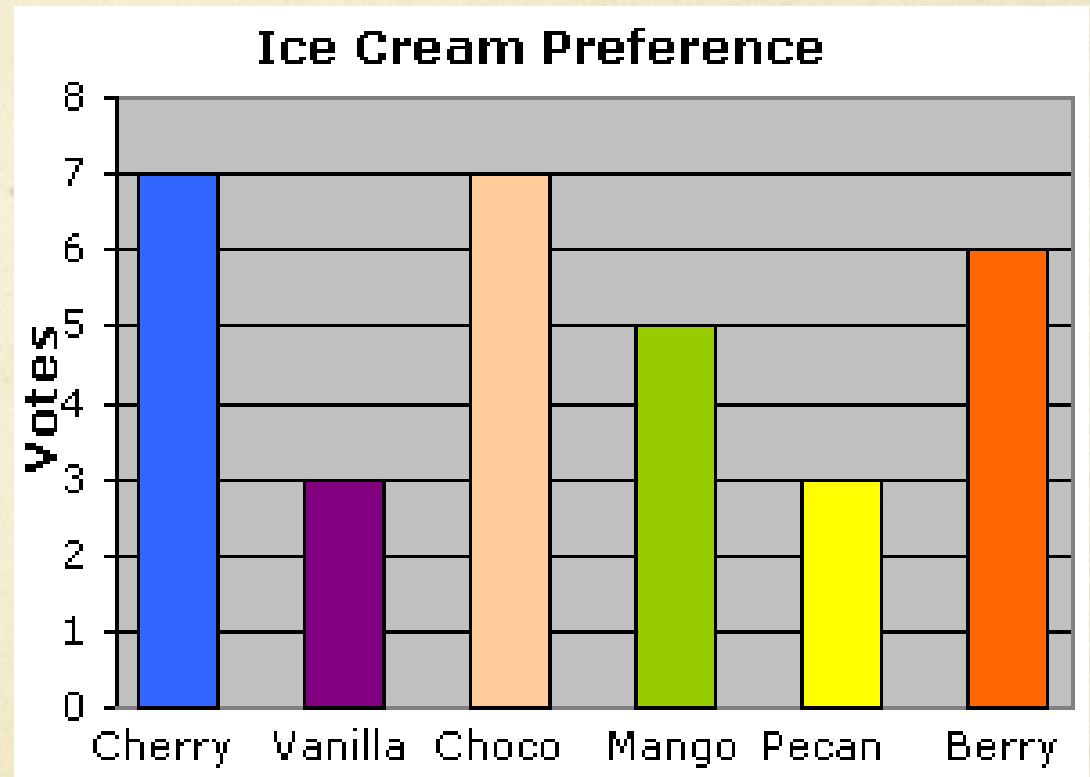


# Objective 8: I can choose the appropriate graph to create based on my data.

- There are 3 main types of graphs
  - Bar Graph
    - This type of graph is used when you are **COMPARING 2 or more things.**
  - Line Graph
    - This type of graph is used to show **A CHANGE OVER A PERIOD OF TIME**
  - Circle Graph or Pie Chart
    - This type of graph is used to show parts of a whole it is usually expressed in

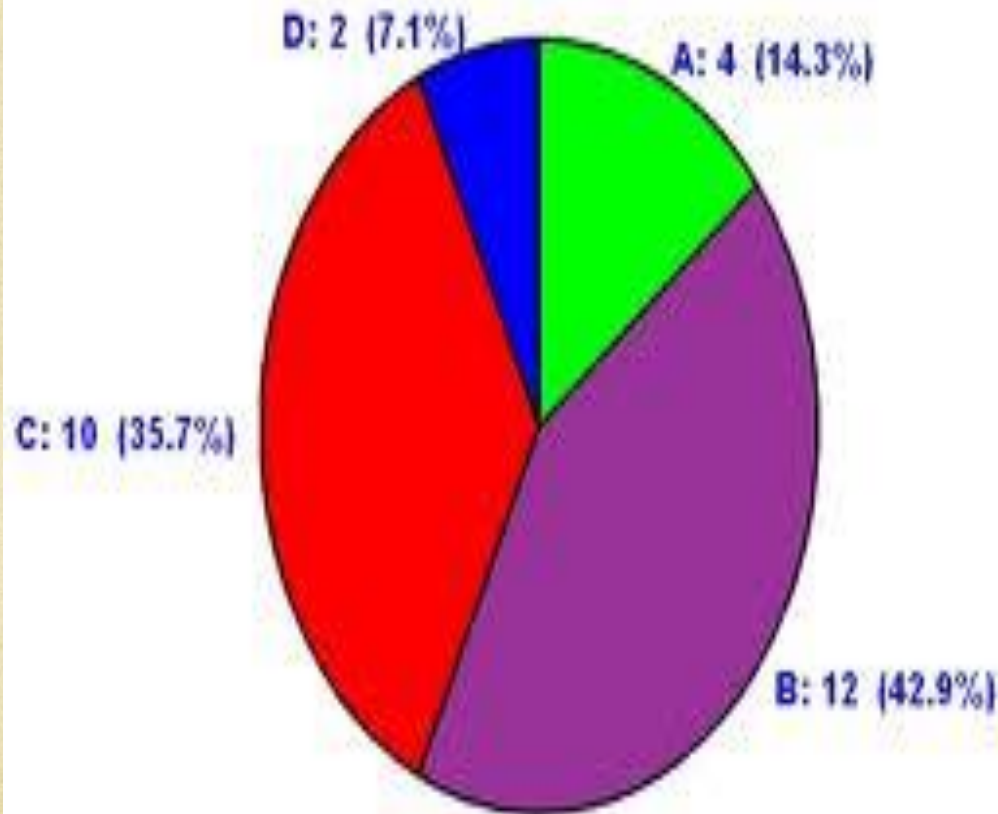
# Bar Graphs – Compare 2 or more things

Ice Cream Type	# of Votes
Cherry	7
Vanilla	3
Chocolate	7
Mango	5
Pecan	3
Berry	6



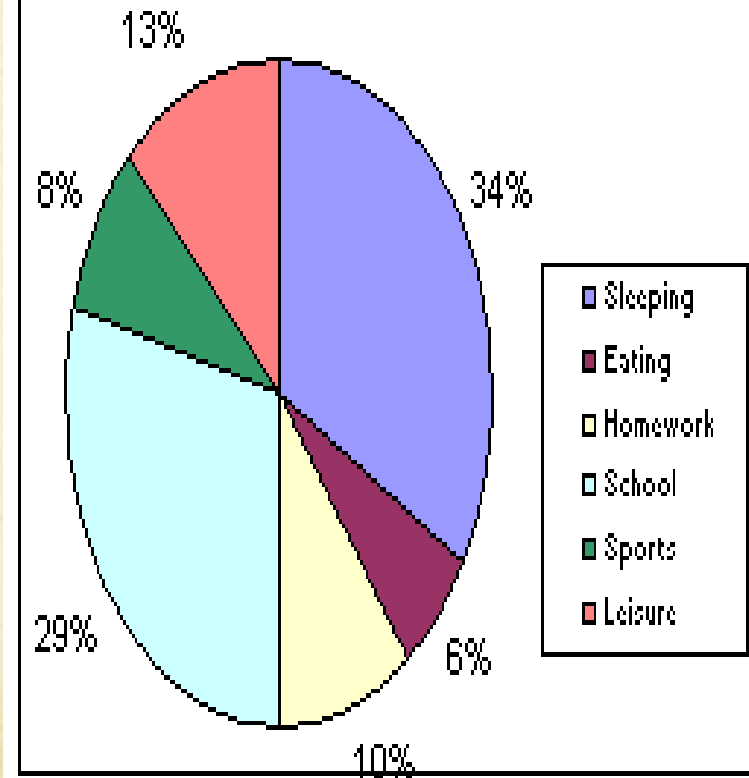
# Circle Graph or Pie Chart: Show parts of a whole – all parts have to add up to 100%

Student Grades



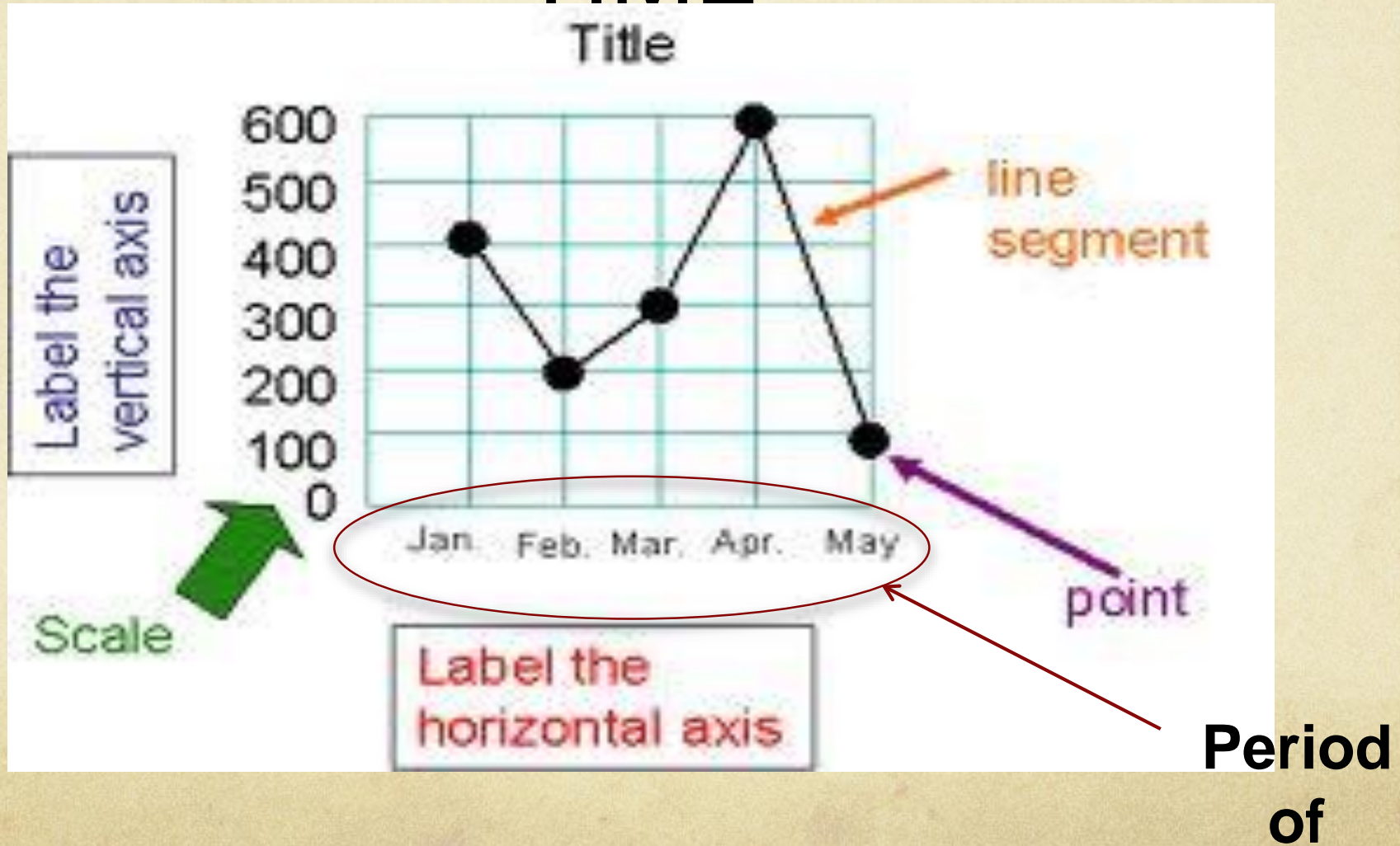
24 Hour Time Budget for an Average School Day

CIRCLE GRAPH EXAMPLE

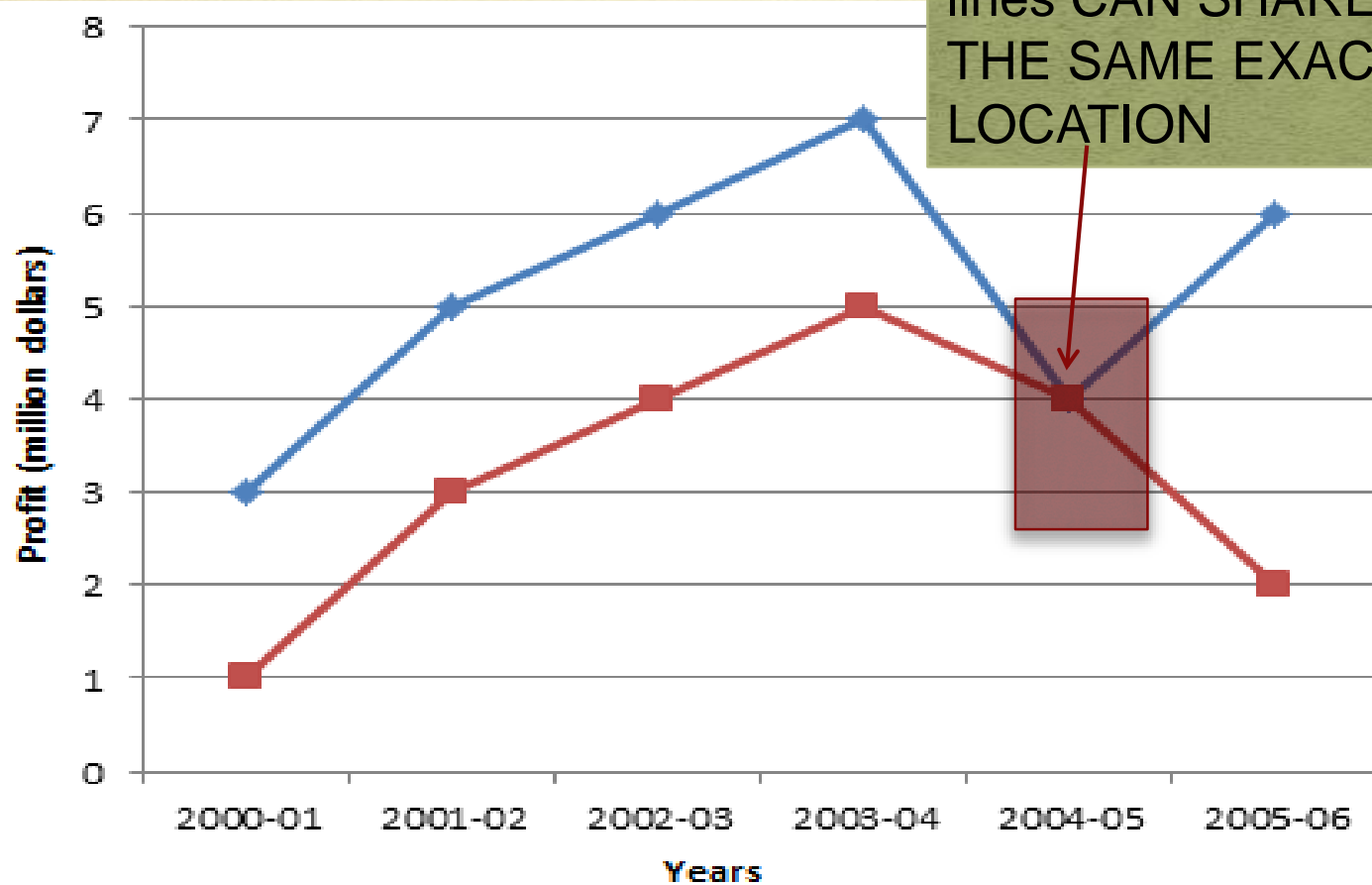




# Line Graphs – show a change over A PERIOD OF TIME

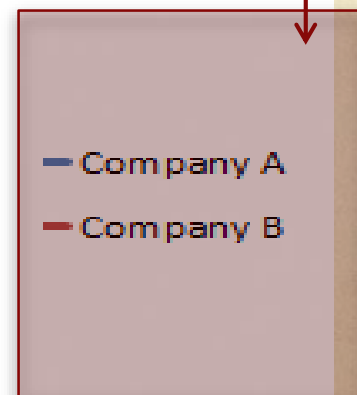


# Graphing more than one set of data on the same graph

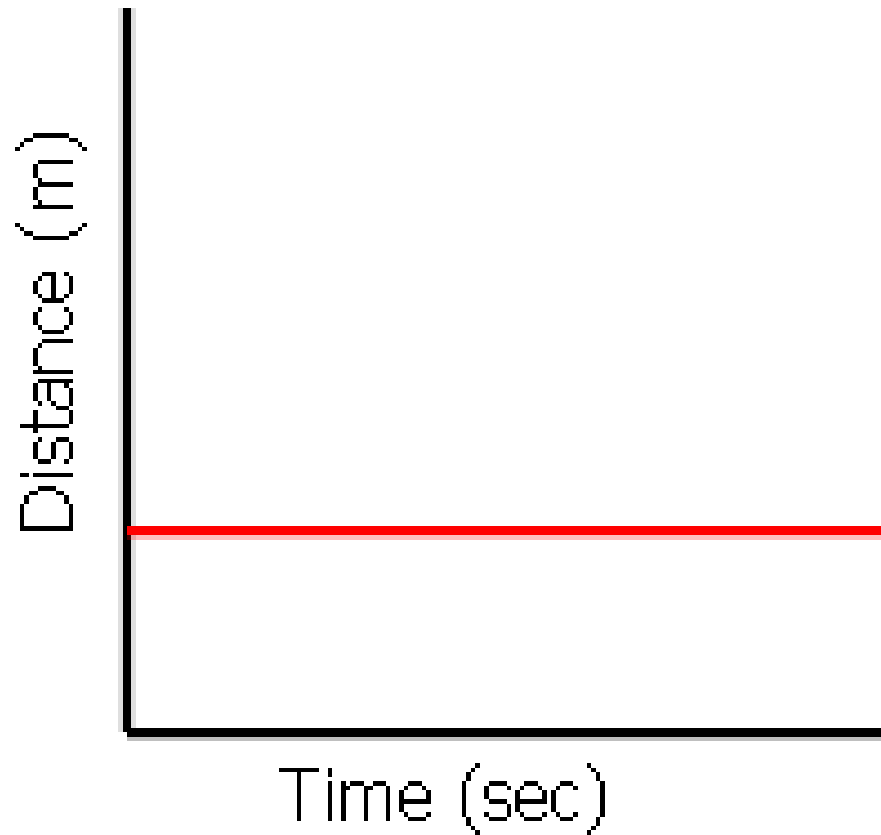


Points from different lines CAN SHARE THE SAME EXACT LOCATION

A key to tell the lines apart



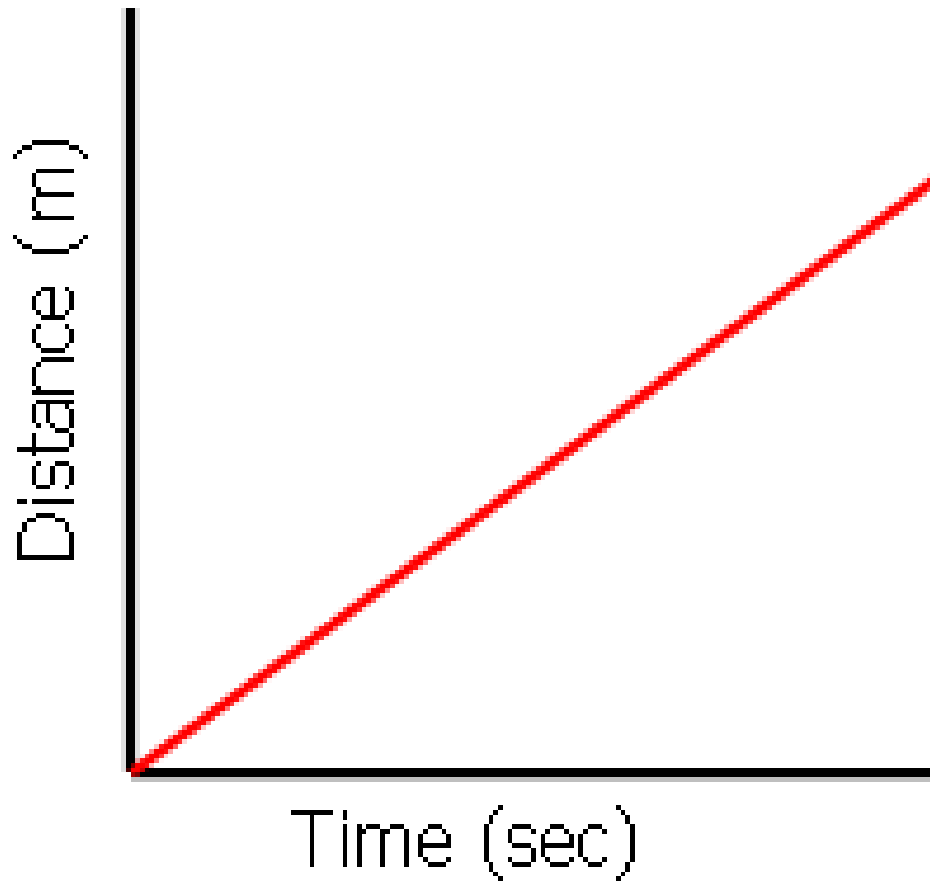
# happening based on the shapes of the graph



The graph shows an object which is not moving (at rest).

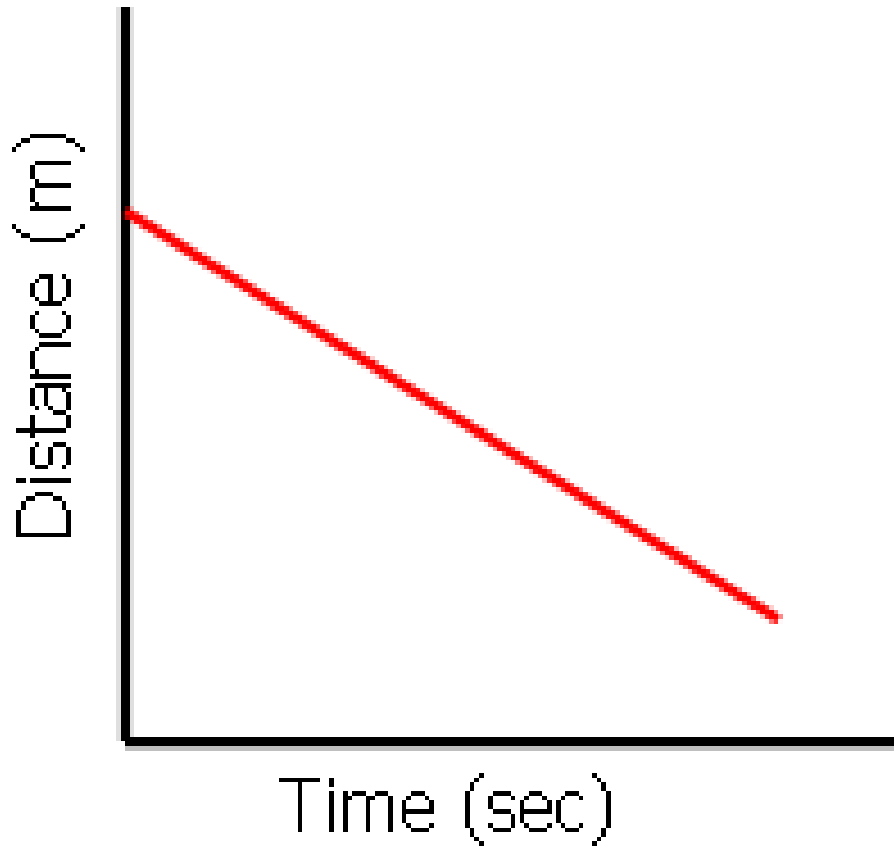
The distance stays the same as time goes by because it is not moving.



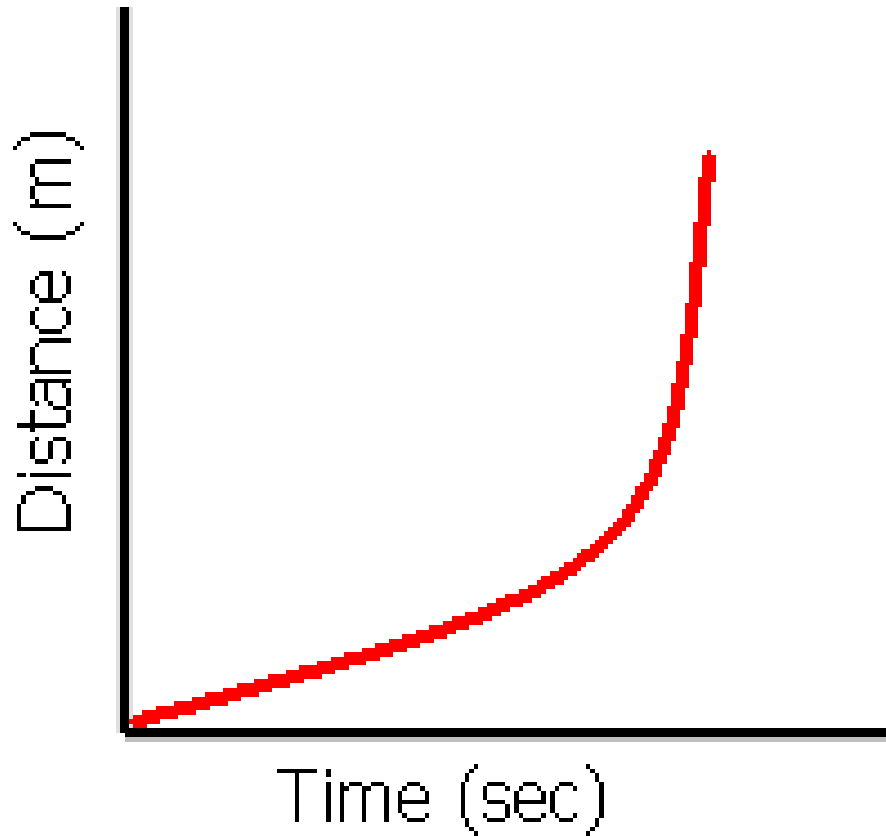


The graph shows that the object's distance increases as time passes. The object is moving and so it has velocity.

The straight line shows it is a constant (not changing).



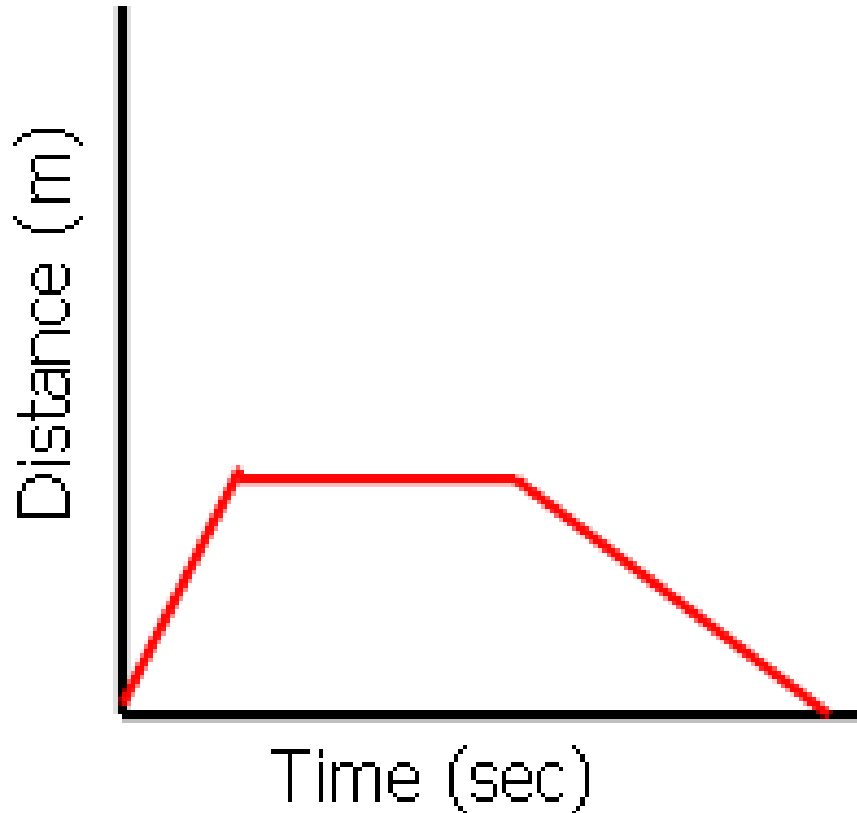
Just like the previous graph, this graph shows an object moving with constant velocity



The curve in the graph shows that the objects velocity is changing as time passes.

This is acceleration.





In the first part of the graph the object is moving with constant velocity.

In the second part of the graph the object is at rest (not moving).

In the third part the object is again moving with constant velocity.

- Johnny's mother brought him to school and then came back home for 3 hours. Then she went to the store for 2 hours which was on her way to Johnny's school. After she was done shopping she continued to Johnny's school to pick him up and then went back home for the rest of the day.