## Algebra I Lesson 4.1 – Graphing Relationships Mrs. Snow, Instructor



What does this graph look like? Cardiologists can study an EKG and analyze their patients' heartbeat. Graphs can be used to illustrate many different situations such as the functioning of your heart, seismic pattern of an earthquake, or tracking of a satellite.

It is important to know how to relate a graph to a given situation by using accurate words in the description:

Segment Description	Key Words
Horizontal	constant, stayed the same, no change
Slanting upward	rose steadily, increase
Slanting downward	dropped sharply, decrease



Describe a situation for filling an aquarium tank full of water:



## Sometimes data presented on a graph are just points other times the data is connected by a line or curve:



**Discrete graph** – shows only points



Sketch a graph the situation, tell whether the graph is continuous or discrete.

