5.3g Class Activity: From Stories to Graphs



Directions: Sketch a graph to match each of the following stories. Label key features of your graph.



4. A concert for a popular rock group is sold out. The arena holds 8,000 people. The rock group is scheduled to take the stage at 8 pm. A band that is not very well known is opening for the rock band at 6:30 pm. The rock band is scheduled to play for 2 hours and the staff working the concert have been told that the arena must be cleared of people by 11:30 pm. Sketch a graph of the number of people in the arena from 5 pm to midnight. Time 0 on the grid below is 5 pm.



5. A parking garage charges \$5 per hour and has a maximum cost of \$40 for 12 hours. Sketch a graph of the total cost depending on how many hours a car is in the garage.



6. Your science teacher has the beakers shown below. He is going to fill them with water from a faucet that runs at a constant rate. Your job is to sketch a graph of the height of the water in each of the beakers over time.





7. Now consider the volume of the water in each of the beakers over time. Sketch a graph of the volume of the water in each of the beakers over time.

