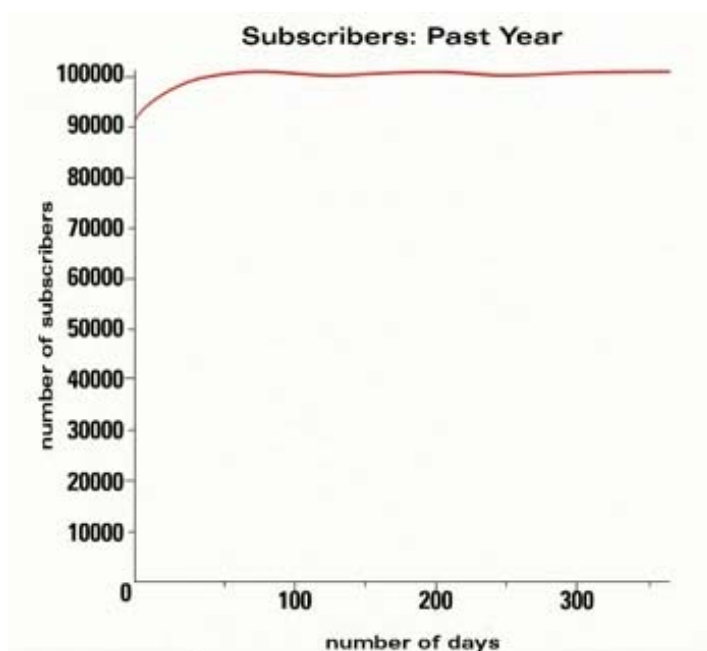
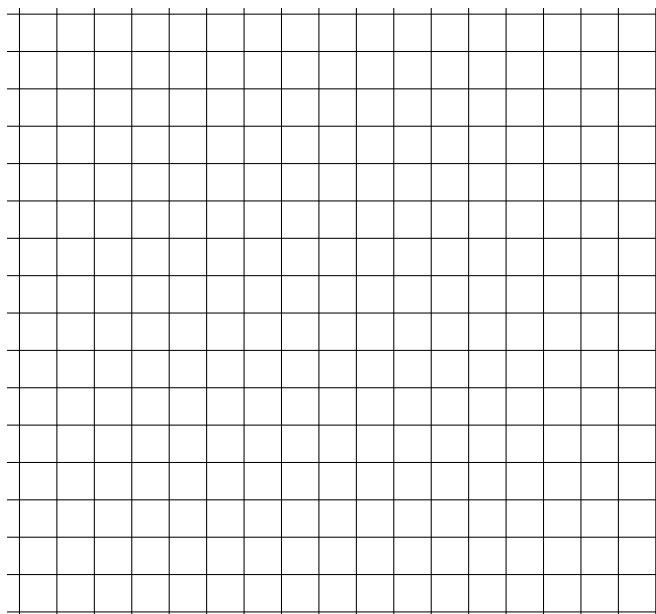


Solve each of the problems below for the given situation.

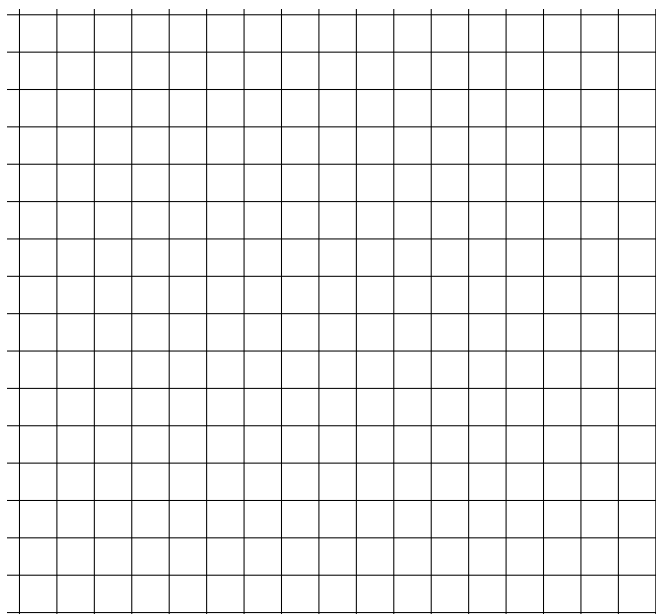
Harun and Zaid are cofounders of an online music lesson site called MyConservatory.com, which offers lessons with musicians from around the world for a monthly subscription fee. Today, they are meeting with a bank loan officer to ask for a business loan to purchase new equipment and create TV commercials to help their company grow. The last meeting they had with the banker did not go very well; although Harun and Zaid have a great company and the data to support it, they did not effectively make their case. There are many ways to represent the company's data. Help Harun and Zaid choose ways that highlight the strengths of their company.

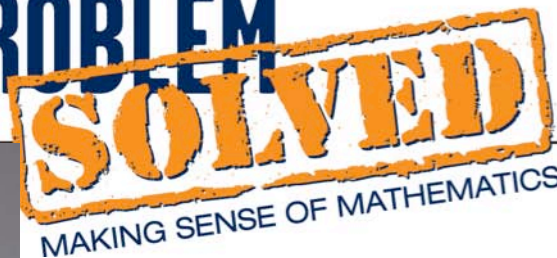


Problem 1: My Conservatory has been flourishing. The company started with 90,000 subscribers at the beginning of last year and increased that number to 100,000. Subscribers fluctuated close to that number throughout the year. Without altering the data, change the graph above to highlight the increase in subscriptions at the beginning of the year.

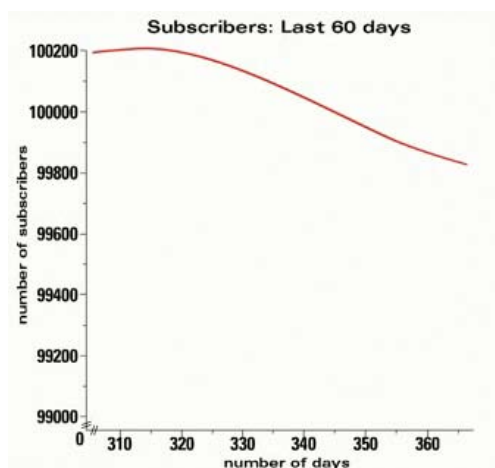


Problem 2: My Conservatory's membership has been fluctuating because the company hasn't had enough video equipment to provide a consistent set of advanced classes. When they made their presentation to the first banker, one could barely see the fluctuation in subscribers. Again, without altering the data, change the graph so that it will show the way membership has risen and fallen over time.





Problem 3: The bank has also asked Zaid and Harun to include information about the last 60 days. Using the graph below, Zaid was concerned the banker would look at the graph and think that enthusiasm for My Conservatory was plummeting. The decline represents about 330 members. Determine the percentage out of 100,000 that 330 represents as well as the percentage growth for last year. How can Zaid and Harun share this information with the banker in a way that will emphasize the success of their company?



Problem 4: The bar graph below shows the current salaries of the nine members of the My Conservatory staff. Which measure of center should Harun and Zaid use to summarize the data, if they want to emphasize that many of the company's employees receive a moderate salary? Why?

