TODAY'S AGENDA: December 14

- Work on Khan Academy Mission:
 - > Data Distributions
- Today's Objective: Small-Group Lesson
 - > Students will be able to determine the Effects of Shifting, Adding, and Removing a Data Point
- Today's Standard:
 - > Summarize, represent and interpret data on a single count or measurement variable.

Mean: Average (Add everything up)

4 of things Median: Midole

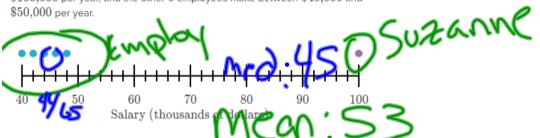
Liam works at a zoo. He was looking at some data showing the masses of their 5 African elephants. The mean mass of the elephants was $3,\!800\,kg$, and the median mass was $3,\!600\,kg$. The smallest elephant, named Lola, weighed $2,\!700\,kg$.

Lola then got very sick and lost weight until her mass reached $1.800 \, \mathrm{kg}$.

How will Lola's mass decreasing affect the mean and median?

- Both the mean and median will decrease.
- The median will decrease, and the mean will stay the same.
- The mean will decrease, and the median will stay the same.
- The mean will decrease, and the median will increase.

Suzanne owns a small business that employs 5 other people. Suzanne makes $\$100,\!000$ per year, and the other 5 employees make between $\$40,\!000$ and $\$50,\!000$ per year.



Suzanne decides to leave the company and keep the other ${\bf 5}$ salaries the



How will removing suzanne's salary from the data set affect the mean and median?

- The mean will decrease and the median will increase.
- The median will decrease and the mean will increase.
- Both the mean and median will decrease, but the median will decrease more than the mean.
- Both the mean and median will decrease, but the mean will decrease more than the median.

meanidourst medium down little bit Brandon works at a small petting zoo with 8 animals. He was looking at some data showing the masses of the animals. Each animal had a different mass between 2 and $160\,kg$. The zoo then buys a horse that weighs $900\,kg$ as their 9^{th} animal. [Show data]

How does buying the horse affect the mean and median?

Both the mean and median will increase, but the median will increase
by more than the mean.

Both the mean and median will increase, but the mean will increase by more than the median.

Both the mean and median will decrease, but the median will
decrease by more than the mean.

Both the mean and median will decrease, but the mean will decrease by more than the median.

	Animal	Weight (in kilograms)	
	chicken	2	
	duck	3	
	goose	5	
	barn cat	7	راره
	dog	27	-0. 1
	goat	36	T
	lamb	45 409	•
	pig	160	1
T	horse	900	
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