

3/22/20

**REUQUESTED
EXAMPLES**

Effects of shifting, adding, & removing a data point

AP Stats: UNC-1 (EU), UNC-1.K (LO), UNC-1.K.2 (EK)

CCSS Math: [6.SP.A.3](#), [6.SP.B.5](#), [6.SP.B.5c](#), [6.SP.B.5d](#)

 Google Classroom

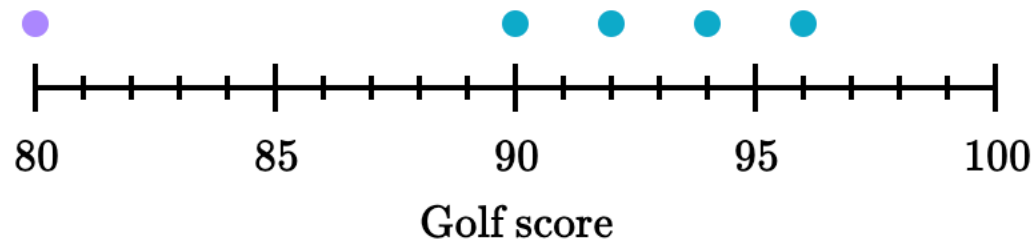
 Facebook

 Twitter

 Email

Ana played 4 rounds of golf and then played her lowest round of golf with a score of 80.

The scores of the **first 4 rounds** and the **lowest round** are shown in the following dot plot.



How did the **lowest round** affect the mean and median?

Effects of shifting, adding, & removing a data point

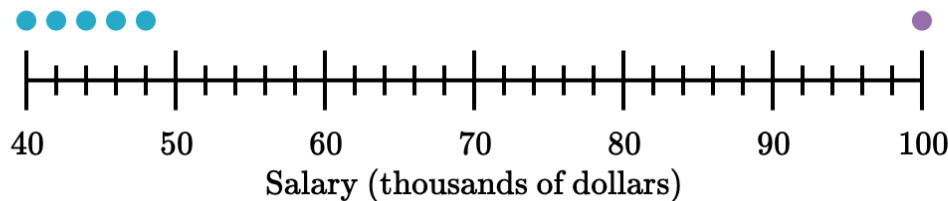
AP Stats: UNC-1 (EU), UNC-1.K (LO), UNC-1.K.2 (EK)

CCSS Math: [6.SP.A.3](#), [6.SP.B.5](#), [6.SP.B.5c](#), [6.SP.B.5d](#)

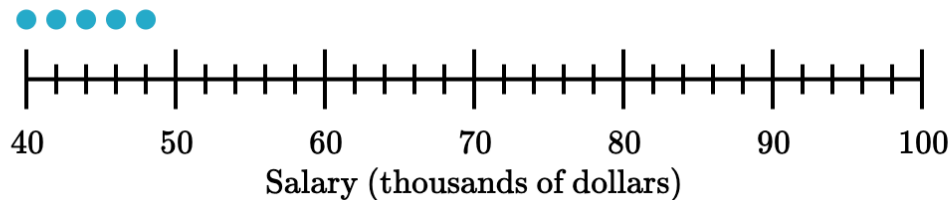
 Google Classroom  Facebook  Twitter  Email

You might need:  Z table

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 5 salaries the same.



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

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

Choose 1 answer:



INCORRECT

The mean will decrease and the median will increase.



INCORRECT

The median will decrease and the mean will increase.



INCORRECT

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



CORRECT (SELECTED)

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

Effects of shifting, adding, & removing a data point

AP Stats: UNC-1 (EU), UNC-1.K (LO), UNC-1.K.2 (EK)

CCSS Math: [6.SP.A.3](#), [6.SP.B.5](#), [6.SP.B.5c](#), [6.SP.B.5d](#)

 Google Classroom  Facebook  Twitter  Email

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 9th animal. [\[Hide data\]](#)

Animal	Weight (in kilograms)
chicken	2
duck	3
goose	5
barn cat	7
dog	27
goat	36
lamb	45
pig	160
horse	900

How does buying the horse affect the mean and median?

Choose 1 answer:



INCORRECT

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



CORRECT (SELECTED)

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



INCORRECT

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



INCORRECT

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

■

How does buying the horse affect the mean and median?

Choose 1 answer:



INCORRECT

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



CORRECT (SELECTED)

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



INCORRECT

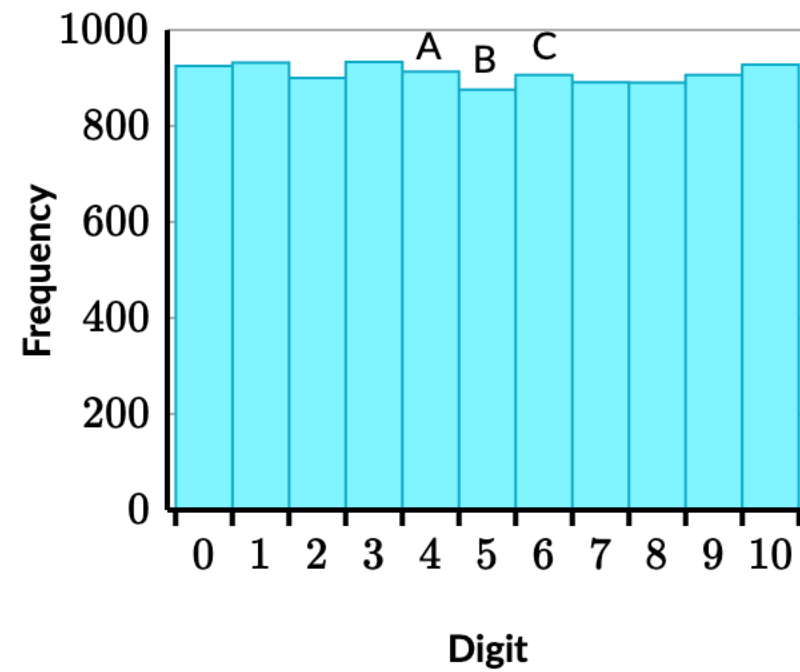
Both the mean and median will decrease, but the median will decrease by more than the mean.



INCORRECT

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

Emily generated 10,000 random digits between 0 and 10. Here are the results:



Digit

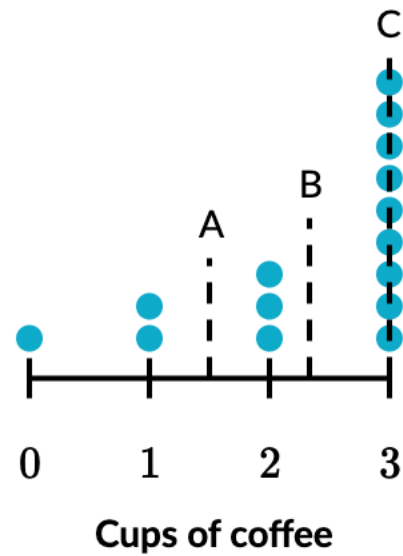
The approximate location of the median is in interval

B ▼

The approximate location of the mean is in interval

B ▼

Eloise recorded how many cups of coffee she drank each of the past 15 days at work. Here are her results:



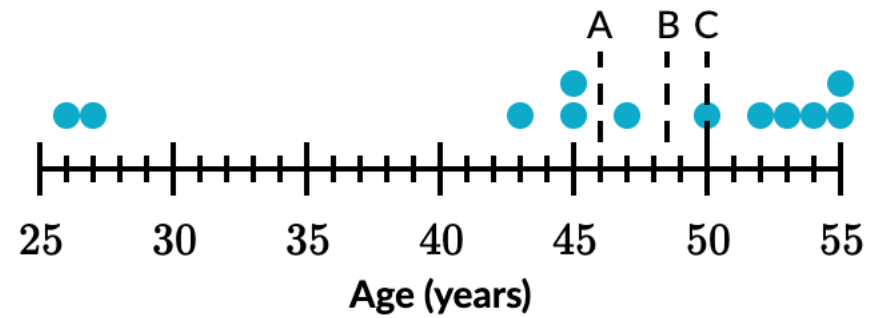
The approximate location of the median is point

A/B/C ▼

The approximate location of the mean is point

A/B/C ▼

An article reported the ages of 12 CEOs:



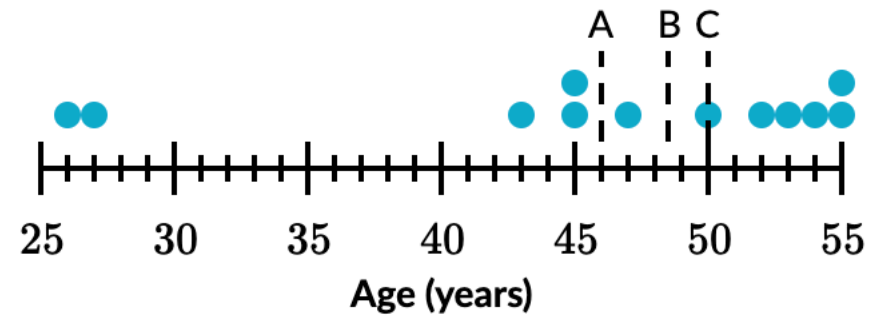
The approximate location of the median is point

A/B/C ▼

The approximate location of the mean is point

A/B/C ▼

An article reported the ages of 12 CEOs:



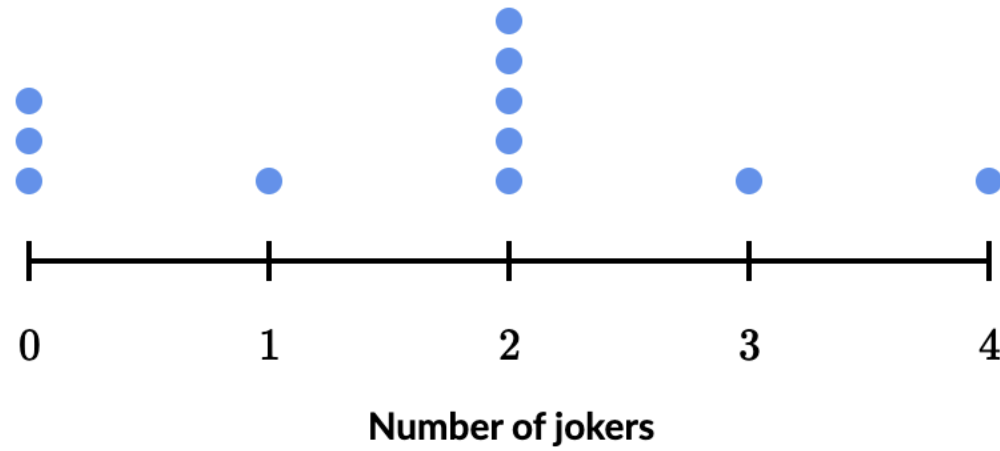
The approximate location of the median is point

B ▼

The approximate location of the mean is point

A ▼

$\{0, 0, 0, 1, 2, 2, 2, 2, 2, 3, 4\}$



$\{0, 0, 0, 1, 2, 2, 2, 2, 2, 3, 4\}$

Find the interquartile range (IQR) of the data in the dot plot below.

jokers

Jokers in each of Marcie's decks of cards

