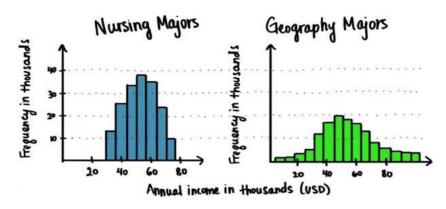
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Q1



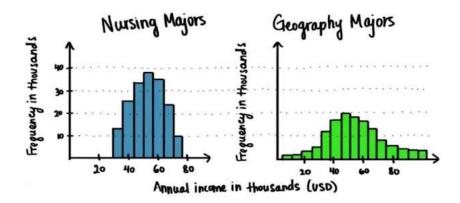
Approximately what income do most nursing majors make?

Approximately what income do most geography majors make?

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Q2



How would you choose one number (or a small range of numbers) that accurately represents the typical salary of nursing or geography majors?

- O The value at which frequency is highest
- Ovalue in the middle
- O Average

- O The value where frequency is lowest
- O Biggest value on x-axis

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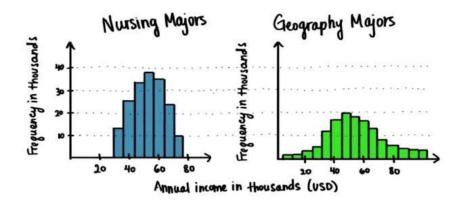


Q3

Quiz: Mode

What is the mode?

Q4

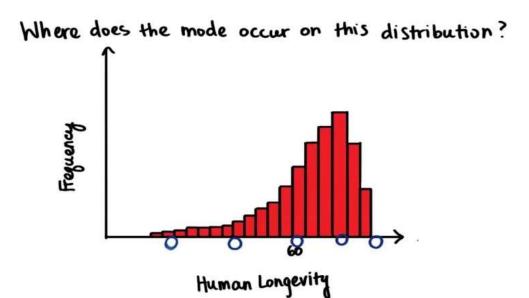


What is the mode?

O Single number that occurred with the highest frequency O Range that occurred with the highest frequency

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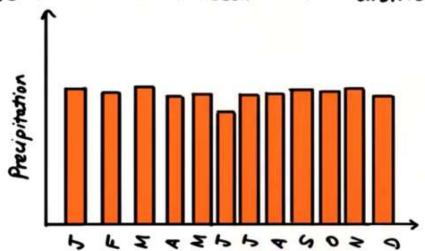


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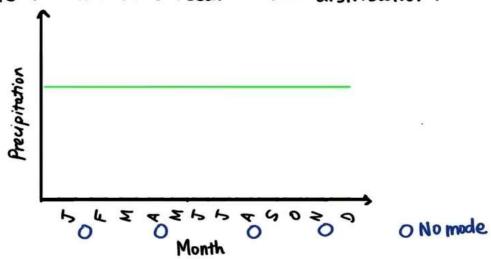


Q 6





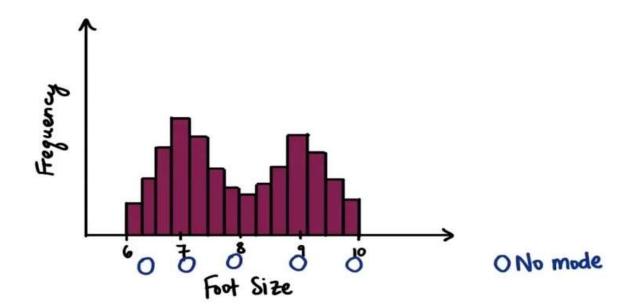
Where does the mode occur on this distribution?



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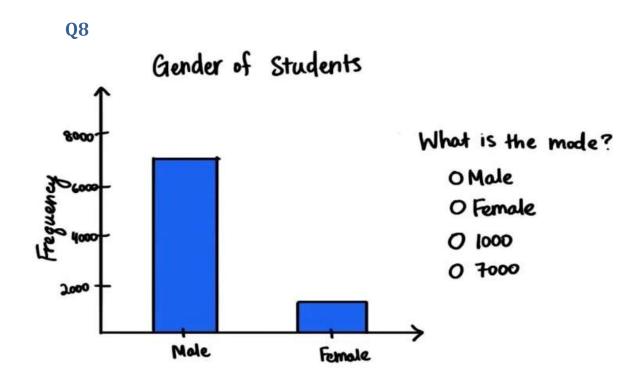


MULTI MODAL DISTRIBUTION



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TRUE or FALSE

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More o' Mode !!!	
The mode can be used to describe any type of data we have, whether it's numerical or categorical.	FALSE
All scores in the dataset affect the mode.	
If we take a lot of samples from the same population, the mode will be the same in each sample.	
There is an equation for the mode.	a.
Mean	

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Q10

Nursing	Geography] Xgen =
58,350	\$48,670	
\$63,120	\$57,320	
\$44,64 0	\$38,150	
\$56,380	\$41,290	
\$72,250	\$53,160	1

PROPERTIES OF MEAN

Q11

What are properties of the mean? \[\begin{align*} \frac{\frac{\chi}{N}}{\text{n}} & \leftill \text{All scores in the distribution affect the mean.} \] \[\begin{align*} \frac{\frac{\chi}{N}}{\text{n}} & \leftill \text{The mean can be described with a formula.} \] \[\begin{align*} \text{Many samples from the same population will have similar means.} \] \[\begin{align*} \text{The mean of a sample can be used to make inferences about the population it came from.} \] \[\begin{align*} \text{The mean will change if we add an extreme value to the dataset.} \]

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Q12

Nursing	Geography
\$58,350	\$48,670
\$63,120	\$57,320
\$44,640	\$38,150
\$56,380	\$41,290
\$72,250	\$53,160
-	\$500,000

Nursing	Geography
\$58,350	\$48,670
\$63,120	\$57,320
\$44,640	\$38,150
\$56,380	\$41,290
\$72,250	\$53,160
	\$500,000

- O This average accurately represents the salary of geography majors.
- O This average is misleading.

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Q14

Nursing	Geography
\$58,350	\$48,670
\$63,120	\$57,320
\$44,640	\$38,150
\$56,380	\$41,290
\$72,250	\$53,160

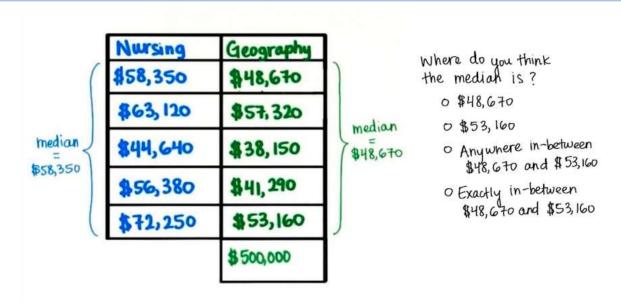
What do we have to do to make the median a useful statistic?

- O Calculate the average
- O Put the data in order
- O Eliminate outliers
- O Elimate data values that repeat

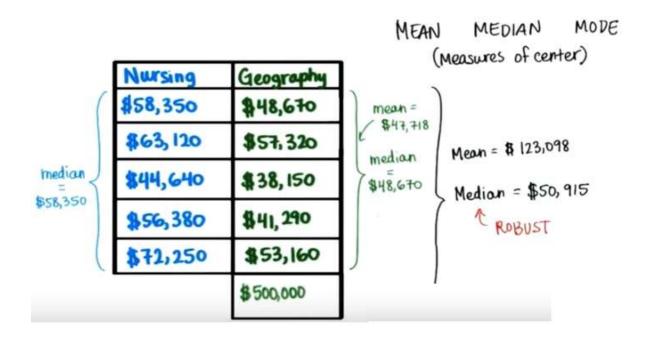
Que :- Find the median for both ??

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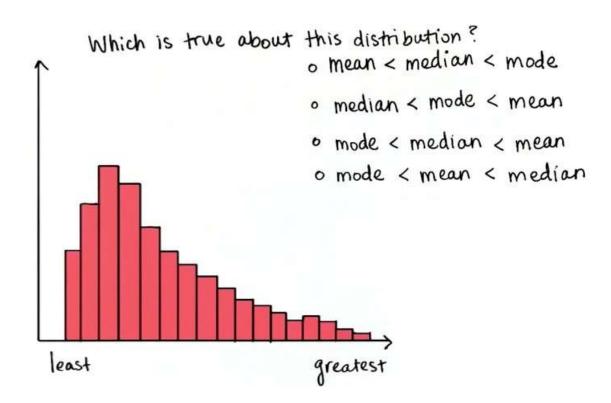
Summary



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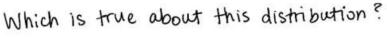


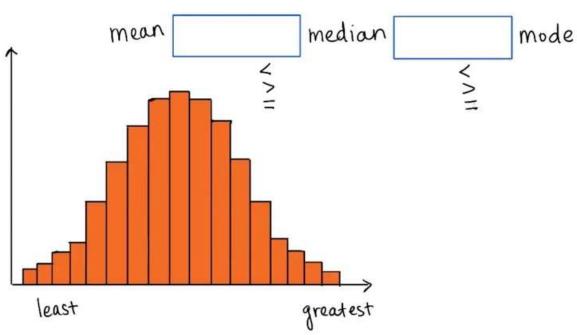
Q16



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Calculating Average using spreadsheet

https://docs.google.com/spreadsheets/d/12PmgHyPClJ 0r9rD6AeUp HUqNKvMC2i8K6bVZ82XziU/edit?usp=sharing

What's the Average??

Now find the median for the same data??

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Finding formula for a median

Q18

		Describe the	median value in symbols	
Rank	Value (x; - ith val	lue) for any dat	taset with n values.	
. 2	X2	Which formula Sorting the d	a(s) describe the median after lata?	r
3 :	X ₃	n even	2	
13	X ₁₃ (modian)		n odd	
14	X14 (median)	П X ₂	$\square X_{\frac{n}{2}}$	
15 :	ŧ	I Xn-1	I Xnt	
27	X ₂₇	$\frac{X_{\underline{n}} + X_{\underline{n}+1}}{2}$	☐ × <u>n-1</u>	
			$\prod X_{\frac{n}{2}+1}$	

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Mean Median					
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