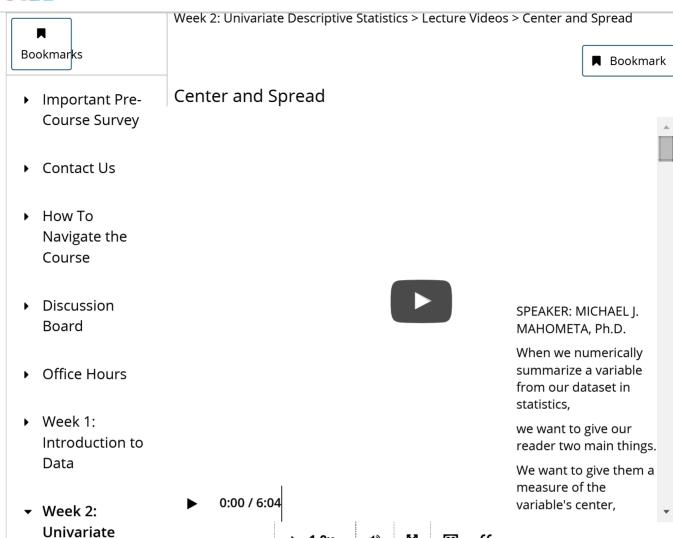


UTAustinX: UT.7.10x Foundations of Data Analysis - Part 1



Readings

Reading Check due
Mar 15, 2016 at 18:00
UTC

Descriptive Statistics

Lecture Videos

Comprehension Check due Mar 15, 2016 at 18:00 UTC

R Tutorial Videos

Pre-Lab

Pre-Lab due Mar 15, 2016 at 18:00 UTC

Lab

Lab due Mar 15, 2016 at 18:00 UTC

Problem Set

Problem Set due Mar 15, 2016 at 18:00 UT

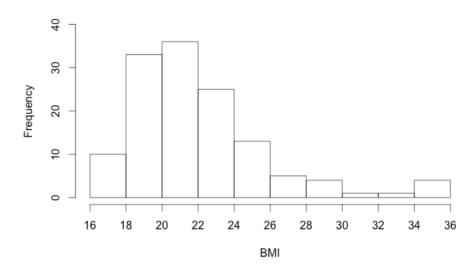
Comprehension Check

.srt

Download transcript

Below are data from a recent national survey on the BMI (body mass index) of a sample of Americans.

- Week 3: BivariateDistributions
- Week 4:
 Bivariate
 Distributions
 (Categorical
 Data)



Identify the missing values in this portion of the frequency table that was used to generate the BMI histogram.

x	f
[16, 18)	(a)
[18, 20)	33
[20, 22)	36
[22, 24)	(b)
[24, 26)	13
[26, 28)	5

(6/6 points)
The value of (a) is:

10

10

The value of (b) is:

25

✓ Answer: 25

25

The shape of this distribution can best be described as:

bimodal

left skewed
● right skewed ✔
uniform
A BMI of 30 is considered obese. Which of the following is the best description of the BMI of this sample?
This sample demonstrates that a large percentage of Americans are obese.
 The majority of individuals are not obese, but there are some extreme values in the tail of the distribution.
The prevalence of obesity cannot be determined from this graph because BMI is an unreliable measure.
There are no obese individuals in this sample.
When you are comparing two sets of data, and one is strongly skewed and the other is symmetric, which measure of center should you choose for the comparison?
Mean
● Median ✔
Mode
The distributions cannot be compared
Which of the following is an accurate interpretation of the median of a distribution?
About 50% of the population have the median value.

0	The	med	dian	is the	num	erica	al ave	erage	e of t	he d	atase	t.		
0	The	mid	dle 5	50% o	f scoı	es ir	n a di:	strik	outio	n cor	nstitu	te the	e medi	an.
• has				ribution e tha				sco •	re th	an th	ie me	dian,	and h	alf
Twe	lve (cow	ork	ers l	og tl	heir	hou	ırs '	wor	ked	ove	rtim	e in t	he
past {				12,	14,	15	5, 1!	5,	24,	15,	25	, 3,	12}	
(12/ ²				ancw/	ar the	a foll	owing	o au	estic	ne h	y han	d if v	ou car	·
What		•								·		•	ou cai	I •
12.	 75				٦	~	Ansv	ver:	12.7	5				
12.7	75													
What	is th	ie sta	anda	rd de	viatic	n of	the s	sam	ple?	(Rour	nd to 2	2 deci	mal pl	aces.)
7.1	2					~	Ansv	ver:	7.12					
7.12	2													
What	is th	ie 5 i	num	ber su	umma	ary f	or the	e sai	mple	?				
min =	=				_									
2						~	Ansv	ver:	2					
2														
Q1 =					_									
8	7					~	Ansv	ver:	8					
8														
Q2 =														

13	✓ Answer: 13				
13					
Q3 =					
15	✓ Answer: 15				
15					
max =					
25	✓ Answer: 25				
25					
The mean number of over	time hours was (Round to 1 decimal place.)				
12.8	✓ Answer: 12.8				
12.8					
The median number of over	ertime hours was				
13	✓ Answer: 13				
13					
The range was					
23	✓ Answer: 23				
23					
The IQR was					
7	✓ Answer: 7				
7					
What is the shape of this distribution of scores?					
approximately normal					
O left skewed					

o right skewed
uniform

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