Started on			Novembe	er 15, 2	2021, 9):40 AN	Λ									
State		ished	N I I	45 (2004 0											
Completed on Time taken				er 15, <i>i</i>	2021, 9	9.59 AN	/I									
			of 10.00	(90%)											
Question 1 Correct 1.00 points out of 1.00		We have a dataset as follows. Please answer the next 2 questions according to this dataset.														
	df.	head(5)													
	_	carat	cut	color	clarity	depth	table	price	X	у	Z	_				
	0	0.23	Ideal	E	SI2	61.5	55.0				2.43					
	1	0.21	Premium	E	SI1 VS1	59.8 56.9	61.0 65.0		3.89		2.31					
			Good	-	VS1	62.4	58.0				2.63					
	4	0.31	Good	J	SI2		58.0				2.75					
	Whic			regar												
		Which one of those regarding df.describe() function is correct?														
a. It will show count, mean, std, min and max values and quartiles for all of the data, regardless of its type. b. It will only characteristics statistics for pumprised data and only shows counts for categorical variables.																
	It will only show descriptive statistics for numerical data and only shows counts for categorical variables.															
	•	c. It v	will only s	show c	lescrip	tive sta	atistic	s tor r	iumer	rical c	data a	nd bring nothing about categorical data in our dataset.				
		d. It v	will only s	show o	descrip	tive sta	atistic	s for c	atego	orical	data	not the numerical data.				
			t answer													
	It wil	l only	show des	scripti	ve stat	istics f	or nur	merica	l data	a and	bring	nothing about categorical data in our dataset.				
Question 2	Mea	n, med	dian and i	mode	can on	ly be c	alcula	ited fo	r cate	egorio	cal va	riables. For discrete and categorical variables, we generally use value counts.				
Correct 0.33 points out	رمامې	ct one														
of 0.33	O Ti		•													
		alse 🗸	•													
	● F6	aise 🔻														
	The	'he correct answer is 'False'.														
Question 3 Correct 1.00 points out	Selen received 80 out of 100 from the statistics course (mean of the grades in the class is 30 and the standard deviation is 10). She also won 2 prizes out o 10 at the school's various competitions. Melek received 30 from the same statistics course and won 5 prizes in total from the competitions. If you are asked to compare two students' achievements at school, which of the following measures and metrics will be helpful to use? You can select more than one.															
of 1.00		a. Risk ratio														
		b. Geometric mean														
	c. Coefficient of variation															
	d. None of theö															
		u. NC	one or the	90												
	The	correc	t answer	· is:												
			mean													

Question 4 Correct	Regard	ing statistica	nts are correct? (Select all that apply).												
1.00 points out of 1.00	☑ a.		•			e and median are equal to each other. If we add a new data instance the value of which is taset will not change.	×								
	□ b.	When we co	ompare two da	tasets with th	ne same mea	n, the one with smaller standard deviation have a flatter normal curve.									
	□ c.	In a dataset		sample st. de	v by (N-1) a	nd population st. dev by N, we always have a higher standard deviation for any sample									
	✓ d.	A dataset ca	an have more t	han one mod	e but canno	t have more than one median.	~								
	e.	If the datase	et's mode is hi	gher than me	dian and me	dian is higher than mean, this dataset have positive skewness.									
		rrect answer set can have I		mode but ca	nnot have m	ore than one median.									
Question 5 Correct	Regard	ling pyplot an	d seaborn libra	aries, which c	one of those	statements are correct? (Select all that apply).									
1.00 points out	☑ a.	a. In seaborn, we can show different levels of a categorical variable by passing "hue" parameter.													
of 1.00	□ b.	 b. They add up to one actual library. For example, seaborn includes functions for drawing a violinspot but not for drawing histograms whereas pyple have functions for drawing histograms but not for violinplots. 													
	_ c.	plt.show() fu	unction is nece	essary to get	be able to se	ee the visual in Jupyter Notebook.									
	✓ d.	We can crea	ate our own pa	lettes for cold	or maps in se	eaborn library.	~								
	✓ e.	You can visu	ualize different	types of plot	ts in one sub	plot.	~								
Question 6	You car We car In seab	oreate our o	ferent types o wn palettes for show different	r color maps levels of a ca	in seaborn li tegorical vai	brary., riable by passing "hue" parameter. the histogram of the variables, which one of those is the least likely to have a skewed									
0.00 points out		carat	price	x	у										
of 1.00	count		53940.000000												
	mean	0.797940	3932.799722	5.731157	5.734526										
	std	0.474011	3989.439738	1.121761	1.142135										
	min	0.200000	326.000000	0.000000	0.000000										
	25% 50%	0.400000 0.700000	950.000000 2401.000000	4.710000 5.700000	4.720000 5.710000										
	75%	1.040000	5324.250000	6.540000	6.540000										
	max	5.010000	18823.000000	10.740000	58.900000										
	О а.	Υ													
	b.	Χ													
	○ c.	Carat													
	d.	Price					×								
	The co	rrect answer	is:												
Question 7	A Z sco	ore of 2.0 indi	cates that the	value is locat	ed two stand	dard deviations to the right of the mean.									
Correct 0.34 points out of 0.34		Select one: ■ True True True True True True True True True Tru													
		□ Irue ✔ □ False													
	The co	rrect answer	is 'True'.												

Question **8**Correct
0.33 points out of 0.33

Among mean, mode and median, mean is the one who is affected by the extreme values the most.

Select one:

■ True

False

The correct answer is 'True'.

Question **9**Correct
1.00 points out

of 1.00

Select the best central tendency measure for describing the data.

Income of people in İstanbul where we have a lot of outliers.

Attendance sheet (everyone is either present or not present)

Height of the population, where we have continuous and almost normally distributed data.

Mode •

Median

The correct answer is: Income of people in istanbul where we have a lot of outliers. \rightarrow Median, Attendance sheet (everyone is either present or not present) \rightarrow Mode,

Height of the population, where we have continuous and almost normally distributed data. \Rightarrow Mean

Question **10**Correct
1.00 points out

of 1.00

Please select the correct data type for each of the case.

Final grades (AA, BA, ... FF) that you get at the end of this semester for this course.

Area code of phone numbers.

Number of goals scored by each team in the Turkish Super League

Weights of people in our class

Ordinal V
Nominal V
Discrete

Continuous

The correct answer is:

Final grades (AA, BA, ... FF) that you get at the end of this semester for this course. \rightarrow Ordinal,

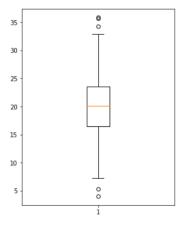
Area code of phone numbers. → Nominal,

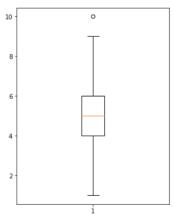
Number of goals scored by each team in the Turkish Super League → Discrete,

Weights of people in our class → Continuous

Question **11**Correct
1.00 points out of 1.00

Which of the following/s cannot be said certainly about the box plots shown below? You can choose more than one.





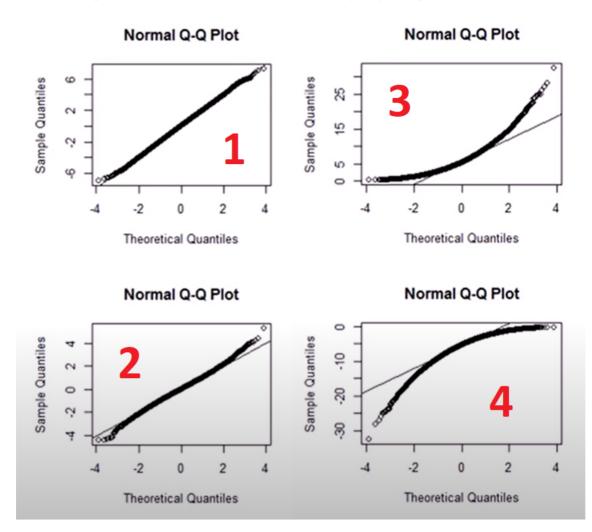
- a. Interquartile range is less than 10 in the first (left) boxplot.
- b. There are outliers in both datasets.
- c. They are both coming from a continuous variable.
- d. Second (right) boxplot have less outliers, so it is more likely coming from a normal distribution.

The correct answers are:

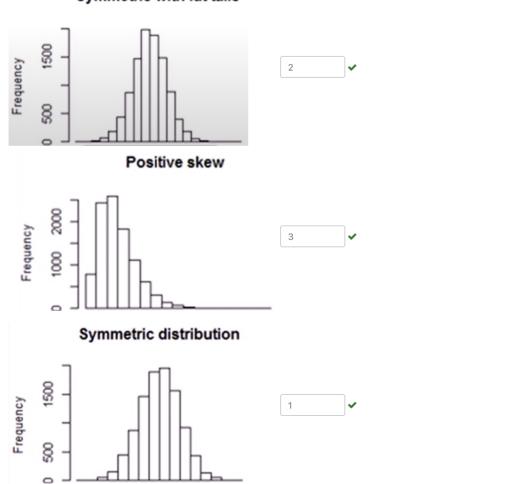
They are both coming from a continuous variable.,

Second (right) boxplot have less outliers, so it is more likely coming from a normal distribution.

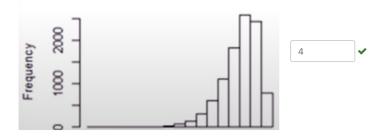
of 1.00





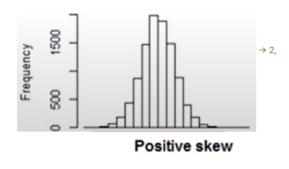


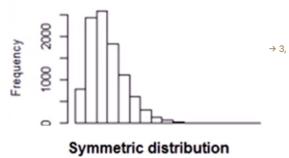
Negative skew

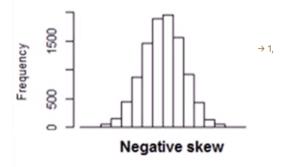


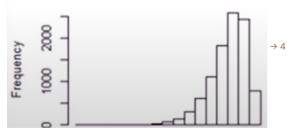
The correct answer is:

Symmetric with fat tails









◄ Quiz #1

Jump to...

Quiz #3 ▶