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Test Name: ACDS-Data Science 2 (Statistics, Experimental Design, Hypothesis Testing, Pivot Tables)  
Taken On: 3 Mar 2021 02:55:42 EST  
Time Taken: 7 min 8 sec/ 130 min  
Work Experience: > 5 years  
Invited by: TTS  
Invited on: 12 Jan 2021 10:17:15 EST  
Skills Score:  
Tags Score:

excel 20/30  
hypothesis testing 40/40  
pivot tables 10/10  
statistics 60/80

81.3%  
130/160

scored in ACDS-Data Science 2 (Statistics, Experimental Design, Hypothesis Testing, Pivot Tables) in 7 min 8 sec on 3 Mar 2021 02:55:42 EST


Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	Statistics > Multiple Choice	5 sec	10/ 10	✓
Q2	Statistics > Multiple Choice	17 sec	10/ 10	✓
Q3	Statistics > Multiple Choice	13 sec	10/ 10	✓
Q4	Statistics > Multiple Choice	17 sec	0/ 10	✗
Q5	Statistics > Multiple Choice	56 sec	10/ 10	✓
Q6	Statistics > Multiple Choice	9 sec	10/ 10	✓
Q7	Statistics > Multiple Choice	1 min 13 sec	10/ 10	✓
Q8	Statistics > Multiple Choice	13 sec	0/ 10	✗
Q9	Excel > Multiple Choice	24 sec	0/ 10	✗
Q10	Excel > Multiple Choice	20 sec	10/ 10	✓
Q11	Hypothesis Testing > Multiple Choice	16 sec	10/ 10	✓
Q12	Hypothesis Testing > Multiple Choice	18 sec	10/ 10	✓

Q13	Hypothesis Testing > Multiple Choice	12 sec	10/ 10	✓
Q14	Hypothesis Testing > Multiple Choice	14 sec	10/ 10	✓
Q15	Excel Modeling Techniques > Multiple Choice	1 min 34 sec	10/ 10	✓
Q16	Excel > Multiple Choice	7 sec	10/ 10	✓

QUESTION 1



Correct Answer

Score 10

Statistics > Multiple Choice

statistics

QUESTION DESCRIPTION

True or False: A mean will not lie in the center of the data in a normal distribution, but usually will in a skewed distribution.


CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

☐ TRUE
 ☒ FALSE

No Comments

QUESTION 2



Correct Answer

Score 10

Statistics > Multiple Choice

statistics

QUESTION DESCRIPTION

A city is surveying to see if people are in support of using city funding to build a new community center. Which method is best for getting a good random sample?


CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

☐ Survey people living within a five-mile radius of the designated building site.
 ☐ Survey every third person who visits the library.
 ☒ Survey a random selection of people living within the city limits.
 ☐ Survey a group containing half conservative voters and half liberal voters.

No Comments

QUESTION 3



Correct Answer

Score 10

Statistics > Multiple Choice


statistics

QUESTION DESCRIPTION

In which type of correlation does y increase as x increases?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)


☒ Positive Correlation

☐ Negative Correlation

☐ No correlation

No Comments

QUESTION 4



Wrong Answer

Score 0

Statistics > Multiple Choice

statistics


QUESTION DESCRIPTION

What is used to denote the intersection of an Event A and an Event B (that is to say the probability that both Event A and Event B occur)?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

☐  $P(A \& B)$


☒  $P(A \cap B)$

☐  $P(A \cup B)$

☒  $P(A|B)$

No Comments

QUESTION 5



Correct Answer

Score 10

Statistics > Multiple Choice


statistics

QUESTION DESCRIPTION

We have a box containing 5 red marbles, 5 blue marbles, and 5 green marbles. We draw two marbles without replacement. What is the probability that both marbles drawn are green?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)



☒ 0.095


☐ 0.089

☐ 0.11

☐ 0.12

No Comments

QUESTION 6



Correct Answer

Score 10

Statistics > Multiple Choice


statistics

QUESTION DESCRIPTION

What is does a z score tell you?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)



☒ How many standard deviations from the mean your score is.


☐ How many standard deviations from the median your score is.

☐ The likelihood your sample was representative of the population.

☐ The sample size needed to get a good estimate.

No Comments

QUESTION 7

  
Correct Answer

Score 10


Statistics > Multiple Choice statistics

QUESTION DESCRIPTION

What is the formula for degrees of freedom?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

 ☒ df = n - 1


☐ df = mean/n

☐ df = n^2

☐ df = n

No Comments

QUESTION 8

  
Wrong Answer

Score 0

Statistics > Multiple Choice statistics


QUESTION DESCRIPTION

True or False: The formula for determining a confidence interval is  $\bar{X} \pm s\sqrt{n}$

CANDIDATE ANSWER


Options: (Expected answer indicated with a tick)

☐ TRUE

 ☐ FALSE

No Comments

QUESTION 9

  
Wrong Answer

Score 0

Excel > Multiple Choice excel

QUESTION DESCRIPTION

What ToolPak do we use for analyzing data in Excel?


CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)


☐ Analyzer ToolPak


☐ Numbers ToolPak


☐ Stats Helper ToolPak


 ☐ Data Analysis ToolPak


No Comments


<b>QUESTION 10</b>  Correct Answer	<b>Excel</b> > Multiple Choice <span>excel</span>
Score 10	<b>QUESTION DESCRIPTION</b>  True or False: Excel can automatically generate bins for your histograms?
	<b>CANDIDATE ANSWER</b>  <b>Options:</b> (Expected answer indicated with a tick)  <input checked="" type="radio"/> TRUE <input type="radio"/> FALSE
	No Comments

<b>QUESTION 11</b>  Correct Answer	<b>Hypothesis Testing</b> > Multiple Choice <span>hypothesis testing</span>
Score 10	<b>QUESTION DESCRIPTION</b>  In hypothesis testing, what term is used to describe the accepted fact (what you will be trying to disprove during your experiment)?
	<b>CANDIDATE ANSWER</b>  <b>Options:</b> (Expected answer indicated with a tick)  <input checked="" type="radio"/> Null Hypothesis <input type="radio"/> Anti-hypothesis <input type="radio"/> Standard Hypothesis <input type="radio"/> Accepted Standard
	No Comments


<b>QUESTION 12</b>  Correct Answer	<b>Hypothesis Testing</b> > Multiple Choice <span>hypothesis testing</span>
Score 10	<b>QUESTION DESCRIPTION</b>  Would the following hypothesis require a one-tailed or two-tailed test? "Taking medicine B will decrease your cholesterol."
	<b>CANDIDATE ANSWER</b>  <b>Options:</b> (Expected answer indicated with a tick)  <input checked="" type="radio"/> One-Tailed <input type="radio"/> Two-Tailed
	No Comments

<b>QUESTION 13</b>  Correct Answer	<b>Hypothesis Testing</b> > Multiple Choice <span>hypothesis testing</span>
Score 10	<b>QUESTION DESCRIPTION</b> Would the following hypothesis require a one-tailed or two-tailed test? "Napping for twenty minutes after lunch will improve reaction time for the rest of the workday."
	<b>CANDIDATE ANSWER</b> <b>Options:</b> (Expected answer indicated with a tick) <div><input checked="" type="radio"/> <input type="radio"/> One-Tailed <input type="radio"/> Two-Tailed</div> No Comments

<b>QUESTION 14</b>  Correct Answer	<b>Hypothesis Testing</b> > Multiple Choice <span>hypothesis testing</span>
Score 10	<b>QUESTION DESCRIPTION</b> Would the following hypothesis require a one-tailed or two-tailed test? "The average resting heart rate of smokers is 120 BPM."
	<b>CANDIDATE ANSWER</b> <b>Options:</b> (Expected answer indicated with a tick) <div><input type="radio"/> One-Tailed <input checked="" type="radio"/> Two-Tailed</div> No Comments

<b>QUESTION 15</b>  Correct Answer	<b>Excel Modeling Techniques</b> > Multiple Choice <span>pivot tables</span>
Score 10	<b>QUESTION DESCRIPTION</b> True or false: In a pivot table, we can select multiple options for the rows in the sheet.
	<b>CANDIDATE ANSWER</b> <b>Options:</b> (Expected answer indicated with a tick) <div><input checked="" type="radio"/> <input type="radio"/> TRUE <input type="radio"/> FALSE</div> No Comments

QUESTION 16



Correct Answer

Score 10

Excel > Multiple Choice 

excel

QUESTION DESCRIPTION


What function will give us the standard deviation of cells A1 through A20?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

☐ =STD(A1:A20)

☐ =STDEV(A1-A20)



☒ =STDEV(A1:A20)

No Comments