Blackboard @ SU   **Courses**   Organiza [ ] David Forteguerre   ▼

🏠   - Quizzes   Review Test Submission: MBC638 Quiz #2 - Excel (due Sunday, Sept. 9, 10:00pm)

Review Test Submission: MBC638 Quiz #2 - Excel (due Sunday, Sept. 9, 10:00pm)

User	David Forteguerre
Course	MBC.638.M001.FALL18.Data Anls & Decisn Making
Test	MBC638 Quiz #2 - Excel (due Sunday, Sept. 9, 10:00pm)
Started	9/9/18 1:52 PM
Submitted	9/9/18 2:34 PM
Status	Completed
Attempt Score	100 out of 100 points
Time Elapsed	41 minutes out of 1 hour
Results Displayed	All Answers, Submitted Answers, Correct Answers, Feedback, Incorrectly Answered Questions

Question 1   10 out of 10 points

Using a **$ sign** before a **row number** (for example, **B$4**) _____ .

Selected Answer:	✅ keeps the reference to the row fixed, but allows the column reference to change
Answers:	keeps the reference to both the row and column fixed
	✅ keeps the reference to the row fixed, but allows the column reference to change
	allows both the row and column references to change
	keeps the reference to column fixed, but allows the row reference to change

Question 2   15 out of 15 points

 Use the data given below to answer the following question.

Below is a spreadsheet of purchase orders for a computer hardware retailer. (You can copy and paste this table into Excel.)

	A	B	C	D	E	F	G	H
1	Purchase Orders							
2								

3	Supplier	Item Description	Item Cost ($)	Quantity	Cost per Order ($)	A/P Terms (Months)	Order No.	Order Size
4	Rex Technologies	Graphics Card	89	35	3,115	20	AL123	Large
5	Rex Technologies	Monitor	150	15	2,250	25	AL234	Small
6	Rex Technologies	Keyboard	15	40	600	15	AL345	Large
7	Rex Technologies	Speakers	15	20	300	25	AL456	Small
8	Max's Wavetech	HD Cables	5	10	50	25	KO876	Small
9	Max's Wavetech	Processor	278	27	7,506	30	KO765	Large
10	Max's Wavetech	Hard Disk	120	18	2,160	20	KO654	Small
11								
12								

To find the **total order cost** of all **Small orders**, what Excel formula should be used in cell **A12**?

Selected Answer: ✅ =SUMIFS(E4:E10,H4:H10,"Small")

Answers: =SUM(E4:E10,H4:H10,"Small")

                 =SUMIFS(H4:H10,E4:E10,"Small")

                 =COUNTIFS(E4:E10,H4:H10,"Small")

                 =SUMIFS(H4:H10,E4:E10,Small)

                 =AVERAGEIFS(E4:E10,H4:H10,"Small")

                 ✅ =SUMIFS(E4:E10,H4:H10,"Small")

Response Feedback: ☺

Question 3   15 out of 15 points

You are a manager at Burger King. Periodically, you review the menu and come up with recommendations regarding alternative food options, based on the market trends. In particular, you want to build a model to predict the calories per serving of a given item. The data **Burger King.xlsx** contains data for 32 Burger King items.

As part of your model, you need to create a **dummy variable** that would take a <u>value of 1 if the calorie count is at least 500 and total cholesterol is under 100</u>. What command should you use in cell I2?

= IF ([a] , [b] , [c])

Selected
Answer:

You are a manager at Burger King. Periodically, you review the menu and come up with recommendations regarding alternative food options, based on the market trends. In particular, you want to build a model to predict the calories per serving of a given item. The data **Burger King.xlsx** contains data for 32 Burger King items.

As part of your model, you need to create a **dummy variable** that would take a <u>value of 1 if the calorie count is at least 500 and total cholesterol is under 100</u>. What command should you use in cell I2?

= IF (✅ AND(B2>=500,E2<100) , ✅ 1 , ✅ 0)

Answers:

You are a manager at Burger King. Periodically, you review the menu and come up with recommendations regarding alternative food options, based on the market trends. In particular, you want to build a model to predict the calories per serving of a given item. The data **Burger King.xlsx** contains data for 32 Burger King items.

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As part of your model, you need to create a **dummy variable** that would take a <u>value of 1 if the calorie count is at least 500 and total cholesterol is under 100</u>. What command should you use in cell I2?

= IF (✅ **AND(B2>=500,E2<100) ,** ✅ **1 ,** ✅ **0)**

All Answer Choices

- (B2>="500")(E2<"100")
- (B2>=500)&(E2<100)
- (B2>=500)AND(E2<100)
- AND(B2>=500,E2<100)
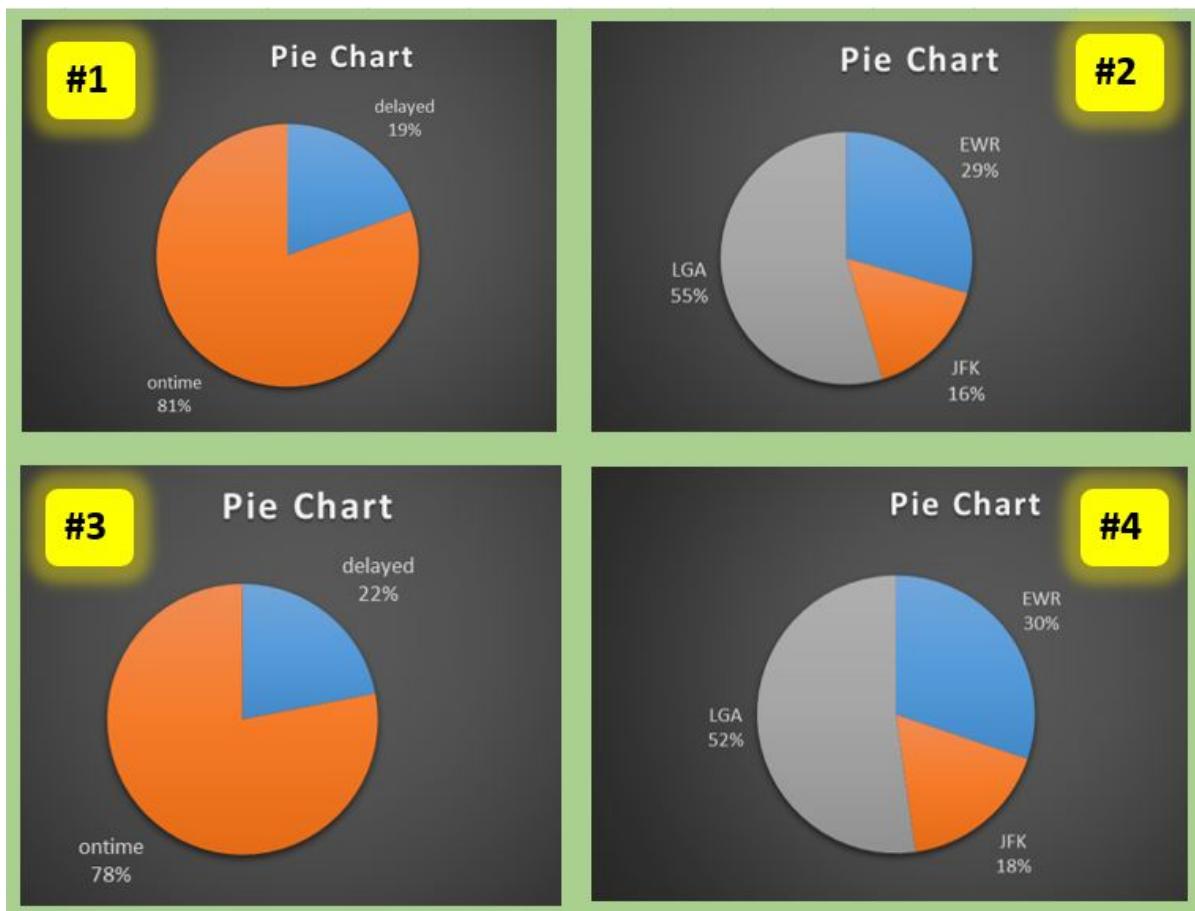- (B2>=500)+(E2<100)
- AND(D2">="&500,E2"<"&100)
- 0
- 1
- Yes
- No
- Maybe

Response Feedback: 🙂

Question 4   15 out of 15 points

Please use the following data: **Flight Delays.xlsx**

Match the data with the appropriate pie chart.

Question	Correct Match	Selected Match
Delay (ontime / delayed)	✅ D. Pie chart **#1**	✅ D. Pie chart **#1**
Destination (LGA / EWR / JFK)	✅ B. Pie chart **#4**	✅ B. Pie chart **#4**

All Answer Choices

A. Pie chart **#3**

B. Pie chart **#4**

C. Pie chart **#2**

D. Pie chart **#1**

Response Feedback: 🙂

Question 5

15 out of 15 points

The World Happiness report is a survey of the state of global happiness. The 2017 report, contained in the Excel file World Happiness 2017.xlsx , ranks 155 countries by their happiness levels. This report was released by the United Nations at an event celebrating International Day of Happiness on March 20th. Governments and different organizations increasingly use happiness indicators to inform their policy-making decisions. Economists, psychologists, survey analysts, health experts and others can use these data to assess the progress of nations.

Using the **Lower Fence / Upper Fence approach**, determine **how many outliers** there are in the **Trust.Government.Corruption** (Column K) variable. For all answers below, please round your numbers to 3 decimal places.

- **Q1 = [a]**
- **Q3 = [b]**
- **IQR = [c]**
- **Lower Fence = [d]**
- **Upper Fence = [e]**
- **# outliers = [f]**

Selected
Answer:

The World Happiness report is a survey of the state of global happiness. The 2017 report, contained in the Excel file World Happiness 2017.xlsx , ranks 155 countries by their happiness levels. This report was released by the United Nations at an event celebrating International Day of Happiness on March 20th. Governments and different organizations increasingly use happiness indicators to inform their policy-making decisions. Economists, psychologists, survey analysts, health experts and others can use these data to assess the progress of nations.

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Using the **Lower Fence / Upper Fence approach**, determine **how many outliers** there are in the **Trust.Government.Corruption** (Column K) variable. For all answers below, please round your numbers to 3 decimal places.

- **Q1 =** ✅ **0.057**
- **Q3 =** ✅ **0.153**
- **IQR =** ✅ **0.096**
- **Lower Fence =** ✅ **-0.087**
- **Upper Fence =** ✅ **0.297**
- **# outliers =** ✅ **13**

Answers:

- **Upper Fence =** ✅ **0.297**
- **# outliers =** ✅ **13**

All Answer Choices

- -0.156
- -0.087
- 0.034
- 0.057
- 0.096
- 0.120
- 0.153
- 0.297
- 0
- 13
- 24

Response Feedback: 😀

Question 6

15 out of 15 points

You are a marketing analyst and are conducting a market research investigating different brands of cereals and their nutritional value. The Excel data **cereals.xlsx** contains information on 80 cereal products. The following table summarizes the data variables:

name	Name of cereal
mfr	Manufacturer of cereal. A=American Home Food Products; G=General Mills; K=Kelloggs; N=Nabisco; P=Post; Q=Quacker Oats; R=Ralston Purina.
type	cold, hot
calories	calories per serving
protein	grams of protein
fat	grams of fat
sodium	milligrams of sodium

fiber	grams of dietary fiber
carbo	grams of complex carbohydrates
sugars	grams of sugars
potass	milligrams of potassium
vitamins	vitamins and minerals: 0, 25, or 100, indicating the typical percentage of FDA recommended
shelf	display shelf (1, 2, or 3, counting from the floor)
weight	weight in ounces of one serving
cups	number of cups in one serving
rating	rating of the cereal from Consumer Reports

Using the **Z score approach**, determine **how many outliers** there are in the **Potassium** (Column K) variable. For the first answer below, please round your number to 3 decimal places.

- **Z score of the first observation (280) = [a].[b][c][d]**
- **# possible outliers = [e]**
- **# definite outliers = [g]**
- **# outliers total (possible + definite) = [i]**

Selected
Answer:

You are a marketing analyst and are conducting a market research investigating different brands of cereals and their nutritional value. The Excel data **cereals.xlsx** contains information on 80 cereal products. The following table summarizes the data variables:

name	Name of cereal
mfr	Manufacturer of cereal. A=American Home Food Products; G=General Mills; K=Kelloggs; N=Nabisco; P=Post; Q=Quacker Oats; R=Ralston Purina.
type	cold, hot
calories	calories per serving
protein	grams of protein
fat	grams of fat

sodium	milligrams of sodium
fiber	grams of dietary fiber
carbo	grams of complex carbohydrates
sugars	grams of sugars
potass	milligrams of potassium
vitamins	vitamins and minerals: 0, 25, or 100, indicating the typical percentage of FDA recommended
shelf	display shelf (1, 2, or 3, counting from the floor)
weight	weight in ounces of one serving
cups	number of cups in one serving
rating	rating of the cereal from Consumer Reports

Using the **Z score approach**, determine **how many outliers** there are in the **Potassium** (Column K) variable. For the first answer below, please round your number to 3 decimal places.

- **Z score of the first observation (280) =** ✅ **2.**✅ **5**✅ **8**✅ **0**
- **# possible outliers =** ✅ **3**
- **# definite outliers =** ✅ **2**
- **# outliers total (possible + definite) =** ✅ **5**

Answers:

You are a marketing analyst and are conducting a market research investigating different brands of cereals and their nutritional value. The Excel data **cereals.xlsx** contains information on 80 cereal products. The following table summarizes the data variables:

name	Name of cereal
mfr	Manufacturer of cereal. A=American Home Food Products; G=General Mills; K=Kelloggs; N=Nabisco; P=Post; Q=Quacker Oats; R=Ralston Purina.
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sugars	grams of sugars
potass	milligrams of potassium
vitamins	vitamins and minerals: 0, 25, or 100, indicating the typical percentage of FDA recommended
shelf	display shelf (1, 2, or 3, counting from the floor)
weight	weight in ounces of one serving
cups	number of cups in one serving
rating	rating of the cereal from Consumer Reports

Using the **Z score approach**, determine **how many outliers** there are in the **Potassium** (Column K) variable. For the first answer below, please round your number to 3 decimal places.

- **Z score of the first observation (280) =** ✅ **2.** ✅ **5** ✅ **8** ✅ **0**
- **# possible outliers =** ✅ **3**
- **# definite outliers =** ✅ **2**
- **# outliers total (possible + definite) =** ✅ **5**

All Answer Choices

- 0
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9

Response Feedback: 😐

Question 7

15 out of 15 points

You are a marketing analyst and are conducting a market research investigating different brands of cereals and their nutritional value. The Excel data **cereals.xlsx** contains information on 80 cereal products. The following table summarizes the data variables:

name	Name of cereal
mfr	Manufacturer of cereal. A=American Home Food Products; G=General Mills; K=Kelloggs; N=Nabisco; P=Post; Q=Quaker Oats; R=Ralston Purina.
type	cold, hot
calories	calories per serving
protein	grams of protein
fat	grams of fat
sodium	milligrams of sodium
fiber	grams of dietary fiber
carbo	grams of complex carbohydrates
sugars	grams of sugars
potass	milligrams of potassium
vitamins	vitamins and minerals: 0, 25, or 100, indicating the typical percentage of FDA recommended
shelf	display shelf (1, 2, or 3, counting from the floor)
weight	weight in ounces of one serving
cups	number of cups in one serving
rating	rating of the cereal from Consumer Reports

Compute the **mean of Winsorized "Potassium" data** (Column K), in which the **bottom 4% and the top 4%** of data are Winsorized.

Round your answer to 3 decimal places (ex.: 50.123)

Selected Answer: ✅ 94.709

Correct Answer: ✅ 94.709

Answer range +/- 0.5 (94.209 - 95.209)

Response Feedback:

Wednesday, November 21, 2018 1:11:51 PM EST

← **OK**