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191RME01A3 RESEARCH METHODOLOGY

Course Content Exams

Preview Test: Research Methodology - May exam

Preview Test: Research Methodology - May exam

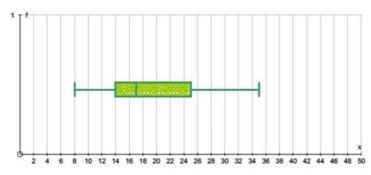
Test Inforr	nation
Description	Research Methodology (RME01A3) - May exam
	Examiners: Dr A Green, Dr N Janse van Rensburg, Mr V van Appel, Dr H Morris-Eyton
	Moderator: Prof W Hollander
Instructions	Complete all sections.
	Any calculations should be rounded to 2 significant figures (unless otherwise stated).
	You are permitted to use Microsoft Excel for table and figure generation.
Timed Test	This test has a time limit of 2 hours. This test will save and be submitted automatically when the time expires. Warnings appear when half the time , 5 minutes , 1 minute , and 30 seconds remain. [The timer does not appear when previewing this test]
Multiple Attempts	Not allowed. This Test can only be taken once.
Force Completion	Once started, this test must be completed in one sitting. Do not leave the test before clicking Save and Submit

QUESTION 1

1 points

Save Answer

Consider the box-and-whisker plot below.



Which one of the following statements is correct?

- A. 50% of the observations are equal to 14 or more
- B. 25% of the observations are equal to 25 or more
- C. 25% of the observations are less than 17
- D. The value of the maximum observation is 50
- E. The first quartile equals 8

QUESTION 2

3 points

Save Answer

The number of friends on Facebook for a sample of 7 students is listed below:

92 46 53 71 88 107 782

The inter-quartile range is equal to:

	Preview Test: Research Me	ethodology - May exam – 191	IRME01A3	
IQR = Q3 - Q1 =	-			
=				
QUESTION 3			1 points	Save Answer
Suppose that the distribution skewed (Skewed to the right median weight be?				
○ A. Larger than 76kg				
□ B. Smaller than 76kg				
○ C. 76kg				
D. Halfway between the n	nean and the mode			
There is not enough in	formation to answer this q	question		
QUESTION 4			1 points	Save Answer
Consider the following samp	le of data:			
-5 14	9 6 -8	-2		
The standard deviation 3.98):	is equal to (correct to to	wo decimal places, e.g.	,	

QUESTION 5

1 points

Save Answer

The Body Mass Index BMI scores for Male and Female athletes are given below:

	Mean	Variance	Sample size
Female	76	110	34
Male	64	88	26

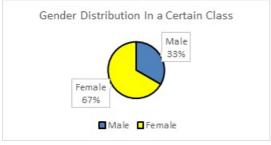
The coefficient of variation for males is equal to (In % correct to 2 decimal places):

QUESTION 6

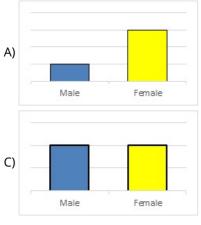
1 points

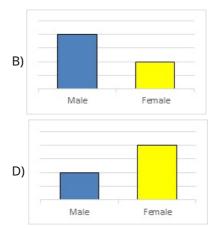
Save Answer

In a certain class, for every male (M) student, there are two female (F) students. This can be expressed as M:F = 1:2. Using a pie chart, it can be presented graphically as follows:



The corresponding simple bar chart is given by





A

 \bigcirc B

C

D

QUESTION 7

1 points

Save Answer

A group of males and females visiting the two coffee shops was asked a few questions. Consider the table below about their hot chocolate preference:

Group	Like hot chocolate	Do not like hot chocolate
Males	10	30
Females	25	35

The probability that a randomly selected customer likes hot chocolate if the person is male, is equal to (correct to 2 decimal places):

QUESTION 8

1 points

Save Answer

A group of males and females visiting the two coffee shops was asked a few questions. Consider the table below about their hot chocolate preference:

Group	Like hot chocolate	Do not like hot chocolate
Males	10	30
Females	25	35

The probability that a randomly chosen customer is female or does not like hot chocolate, is equal to: (correct to 2 decimal places):

QUESTION 9

1 points

Save Answer

A group of males and females visiting the two coffee shops was asked a few questions. Consider the table below about their hot chocolate preference:

Group	Like hot chocolate	Do not like hot chocolate
Males	10	30
Females	25	35

The probability that a randomly selected customer is male, is equal to (correct to one decimal place, e.g., 0.3):

 $\,\,$ The slope of the least squares regression line will always be negative when the correlation coefficient is negative.

Which **one** of the following statements is **incorrect**?

 $\,\,$ The steeper the slope of the least squares regression line, the stronger the correlation between the independent and the dependent variables

C. A correlation coefficient of -0.873 is equal in strength to a correlation coefficient of +0.873

D.

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The closer the correlation coefficient, \(\cdot \), is to \(\pm \frac{1}{2} \), the better choice the independent variable is to forecast the dependent variable

QUESTION 12

1 points Save Answer

According to a study done by UJ students, the height for adult males is normally distributed with an average of 66 inches and a standard deviation of 2.5 inches. Suppose one adult male is randomly chosen. Let X = height of the individual.

Find the probability that the person is between 69 and 70 inches (correct to four decimal places, e.g., 0.6978).

QUESTION 13

Let Z be a **standard normal** random variable. Calculate the probability that P(0 < Z < 1.59). Give your answer to four decimal places.

The five steps procedure when conducting a Hypothesis test is as follows:

- • Calculate the p-value

5 points

Save Answer

- Compare the p-value with the level of significance, α
- State your conclustions

QUESTION 14

- ▼ Calculate the test statistic

QUESTION 15 1 points Save Answer

Which one of the following statements represents a upper-tail alternative hypothesis?

- $_{\odot}$ A. The average age of personal assistants within a certain company is more than 35 years.
- B. The proportion of female UJ students is 50%
- C. The mean annual commuting cost to and from work is less than R25 000.
- D. The average useful lifetime of a tablet is 2 years.
- E. The proportion of defects is not equal to 3%.

QUESTION 16 1 points Save Answer

$H_0: \mu = 12$		
$H_a: \mu \neq 12$		
The p-value is (correct to four decimal places):		
QUESTION 17	4	
	1 points	Save Answer
If the observed test statistic, $Z_{stat} = 1.58$ for an two-tailed claim, then the p-		
value is equal to (correct to two decimal places, e.g., 0.02):		
QUESTION 18	1 points	Save Answer
α		
Suppose the p-value is greater than α , where $\alpha = 0.05$. Which one of the following conclusions is correct?		
ioliowing conclusions is correct?		
A. At = 0.05, we do not reject		
U.A.		
B. At = 0.05, we reject		
QUESTION 19	1 points	Save Answer
	1 points	Save Answer
A certain brand of cooking oil is advertised as containing an "average of 10%	1 points	Save Answer
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QUESTION 22	4	C A
	1 points	Save Answer
Qualitative data methods do not require any formal analysis process or methods.		
True False		
QUESTION 23	1 points	Save Answer
One advantage of group data is that you have access to how people talk to each other.	_	
True		
○ False		
QUESTION 24	1 points	Save Answer
Observational data is also very useful in overcoming discrepancies between what people say and what they actually do and might help you uncover behaviour of which the participants themselves may not be aware.		
○ True		
False		
QUESTION 25	1 points	Save Answer
trong to a constitution of the constitution of	•	
Interviews resemble everyday conversations. True		
○ False		
OUESTION 26		Save Answer
QUESTION 26	1 points	
If you aim for 10 people in your group interviews, it is usually a good idea to over recruit by about 25%, ie recruit 13.	1 points	
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If you aim for 10 people in your group interviews, it is usually a good idea to over recruit by about 25%, ie recruit 13. True False QUESTION 27 Groups interviews typically have between 6 and 8 people. True		Save Answer
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	1 points	Save Answer
During an interview, the interviewer should follow the interview schedule.		
True		
False		
OHECTION 20		
QUESTION 30	1 points	Save Answer
Focus groups should last about 90 minutes but it is better to announce to the group that it will take two hours.		
○ True		
○ False		
QUESTION 31	1 points	Save Answer
During qualitative research, field notes provides valuable insight into observed behaviors		
and should be added to the analysis of the data. True		
False		
QUESTION 32	1 points	Cava Anguar
	. points	Save Answer
With qualitative research there is the possibility of biased results. True		
False		
QUESTION 33	1 points	Save Answer
The topic guide is used mostly in semistructured interviews		
○ True		
○ False		
QUESTION 34	1 points	Save Answer
AGO CANA CANA AND AND AND AND AND AND AND AND AND		
After interviews, small changes can be made to the interviews schedule's questions as long as it makes sense to do so.		
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as it makes sense to do so. True False QUESTION 35 What are the ten (10) things Patton and Cochran (2002) advises a researcher to avoid durin		
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