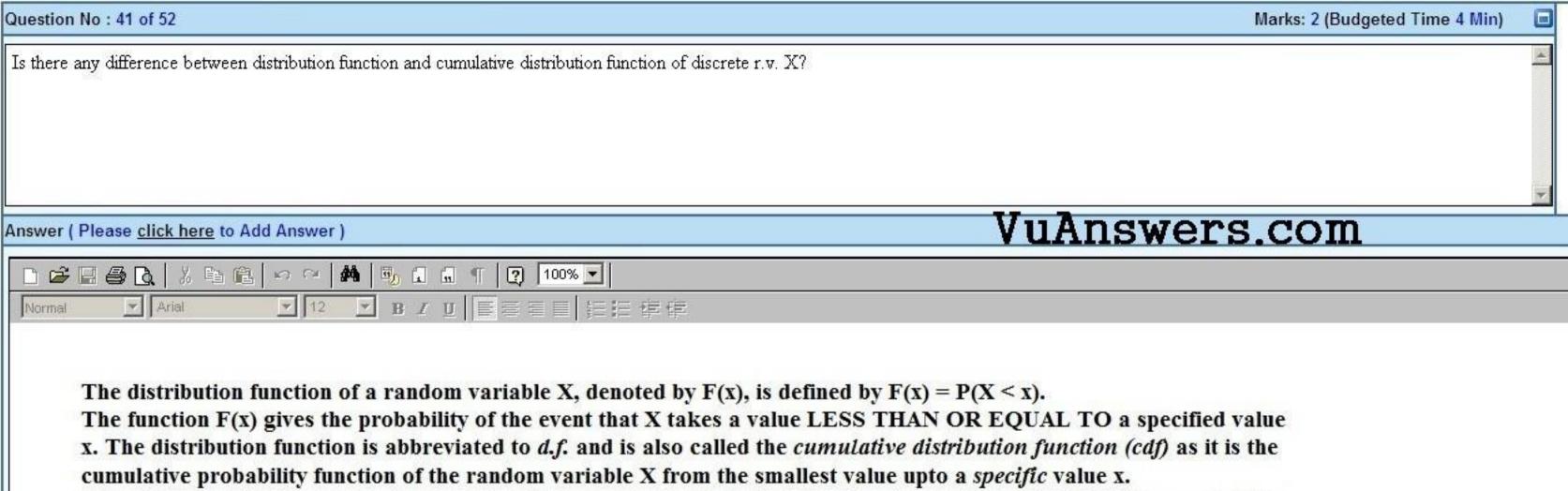


PAST PAPERS BY WAQAR SIDDHU

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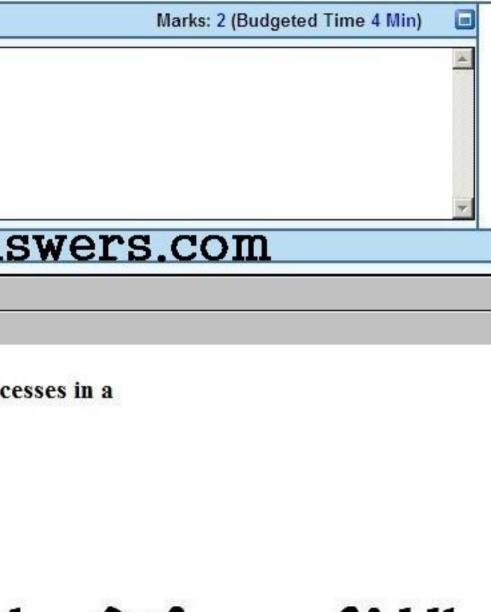


Let us illustrate this concept with the help of the same example that we have been considering --- that of the probability distribution of the sum of the dots when two fair dice are thrown.

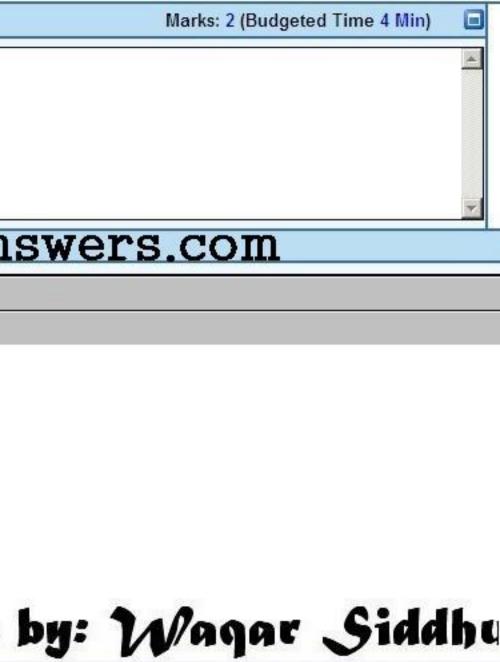


estion No : 42 of 52	
hat is meant by sampling distribution of sample proportion?	
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The probability distribution of any statistic (such as the mean, the standard deviation, the proportion of suc sample, etc.) is known as its sampling distribution.	cc
The sample proportion has different values in different samples.	





Question No : 43 of 52	
If an automobile is driven on the average no more than 16000 Km per year then formulate the null and alternative hypoth	iesis.
Answer (Please <u>click here</u> to Add Answer)	VuAn
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Question No : 44 of 52	
While applying the chi-square goodness of fit test, if an expected frequency in any category is less than 5, then what	we do to solve this problem.
Answer (Please <u>click here</u> to Add Answer)	VuAr
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Question No : 45 of 52	
Write a short note on Quota Sampling.	
Answer (Please <u>click here</u> to Add Answer)	VuAn
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Question No : 46 of 52

Write down the properties of hypergeometric distribution.

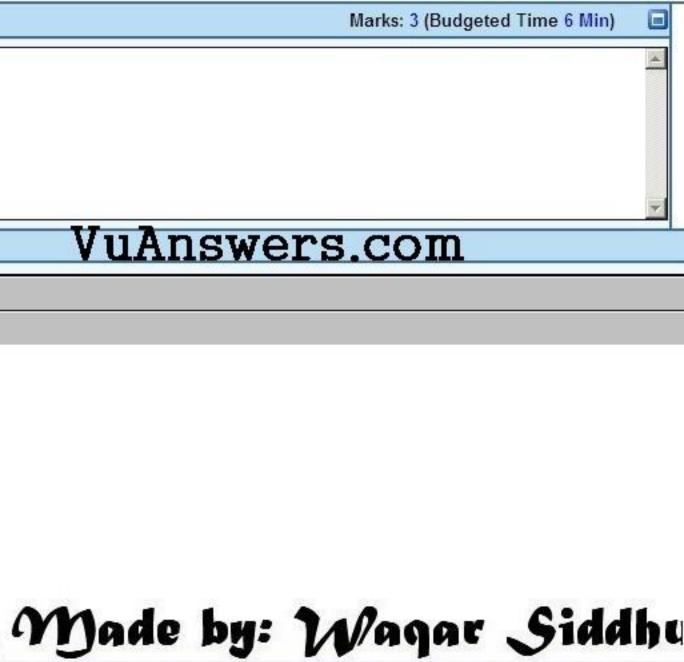
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The probability of success changes on each trial.

· The successive trials are not independent.

· The experiment is repeated a fixed number of times.



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Write down critical region for the following hypothesis at 5% level of significance.

 $H_0: \mu = 75$ $H_1: \mu < 75$

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Question No: 48 of 52

For the following table we want to test the independence of smoking pattern and marital status. What will be the degrees of freedom for the chi-square test of independence?

	Sn	noking Patterr	ı	
Marital Status	Total self-restraint	Only at times	Regular Smoker	Total
Sinale	67	213	74	354

Answer (Please click here to Add Answer)

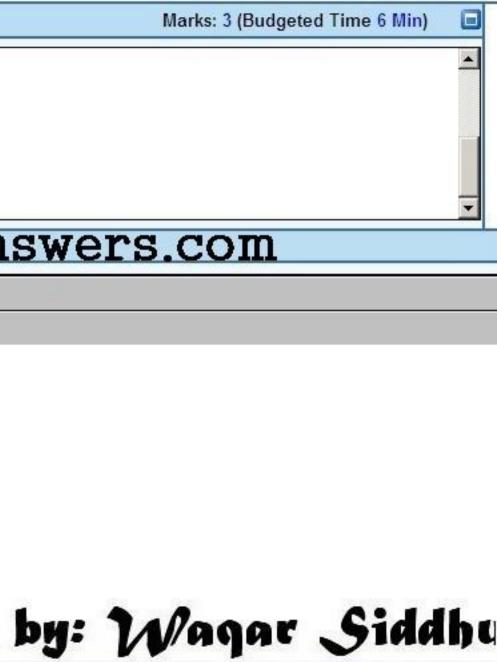
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Marks: 3 (Budgeted Time 6 Min)

Question No : 4	18 of 52						
Married	411	633	129	1173			
Widowed	85	51	7	143			
Divorced	27	60	15	102			
Total	590	957	225	1772			
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Question No: 49 of 52

Answer the following question using the given stem and leaf plot of the ages of the people who attended a musical event.

Stem	Leaf
1	2233445555556666666777778899
2	3 3 4 8
3	6

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Question No: 49 of 52

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a) How many people attended the event?b) What is the age of youngest attendee?

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Question No: 49 of 52

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- a) How many people attended the event?
- b) What is the age of youngest attendee?
- c) What was the age of oldest person attending event?
- d) Which age group was more widely represented?
- e) How many people were above 30?

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If \overline{X} is normally distributed with $\mu_{\overline{X}} = \mu = 24000$ and $\sigma_{\overline{X}} = 412.20$	
then find out the $P(\overline{X} > 24500)$.	
$\frac{1}{2} = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = $	
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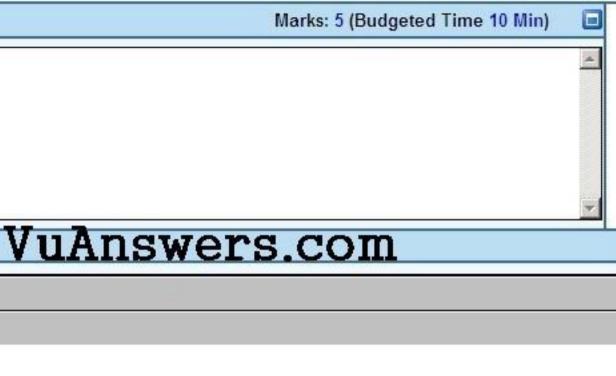
Question No : 51 of 52

If we have
$$\overline{X} = 15$$
 and $\sum_{i=1}^{10} (X_i - \overline{X})^2 = 56$

Then, find the 90% confidence interval for population variance (σ^2).

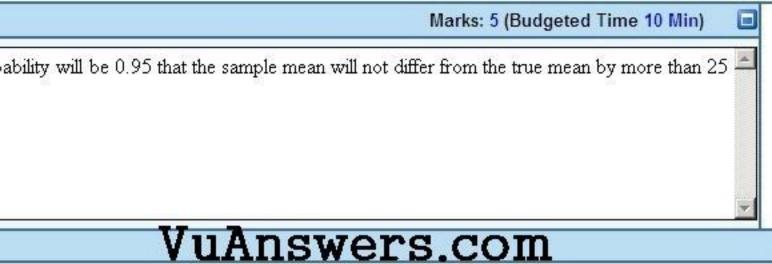
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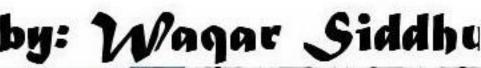
Question No	: 52 of 52					
		o estimate the mea tion. How large a	1010 To 20 To 20	NAME (8) (77,00	ample sufficientl	y large that the prob
Answer (Ple	ease <u>click here</u> to	Add Answer)				
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What does quartile deviation measure in a distribution?	
Answer (Please <u>click here</u> to Add Answer)	
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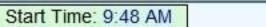




In a random sample of 1000	women in a locality, 2	24 women said that they us	e Aerial washing powder	What is the point estimator	and point esti
washing powder?					

Answer (Please click here to Add Answer)

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imate of the proportion of the women who use Aerial



What is the impact of level of confidence $(1-\alpha)$ on the value of $Z_{\alpha/2}$?	
Answer (Please <u>click here</u> to Add Answer)	VuAns
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Formulate the hypothesis in case of goodness of fit test.	
Answer (Please <u>click here</u> to Add Answer)	
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Why the median is suitable average for the below data set? Explain.

Monthly income (in rupees)	No. of workers
Less than 2000/-	100
2000/-to 2999/-	300

Answer (Please click here to Add Answer) VuAnswers.com 2 100% 💌 P ✓ 12 ▼ B Z U ■ 三 三 三 三 三 年 律 律 - Arial Normal

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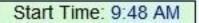




(in rupees)	
Less than 2000/-	100
2000/-to 2999/-	300
3000/- to 3999/-	500
4000/- to 4999/-	250
5000/- and above	50
Answer (Please <u>click</u>	

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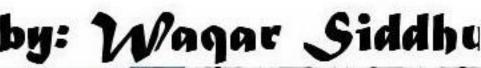






If Z is a standard normal random variable with mean 0 and variance 1, then find the Lower quartile.	
Answer (Please <u>click here</u> to Add Answer)	Vulàna
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Write down critical region for the following hypothesis at 5% level of significance. $H_0: \mu = 75$ $H_1: \mu < 75$ Answer (Please click here to Add Answer) 2 100% 💌 P ✓ 12 ▼ B Z U ■ 三 三 三 三 三 年 律 律 - Arial Normal

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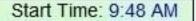


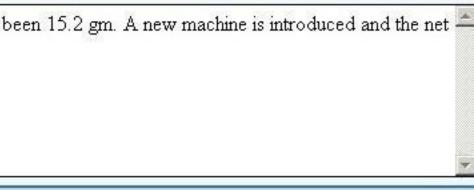
The manager of a bottling plant is anxious to reduce the variability in net weight of fruit bottled. Over a long period, the standard deviation has been 15.2 gm. A new machine is introduced and the net weights (in grams) in 10 randomly selected bottles (all of the same nominal weight) are 987, 966, 955, 977, 981, 967, 975, 980, 953, and 972. State null and alternative hypothesis that machine has a better performance? Also write down test-statistics about the hypothesis.

Answer (Please click here to Add Answer)

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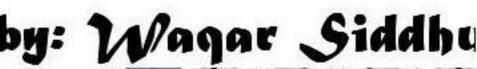
Find the coefficient of standard deviation from the following data: Life in Hours (X): 130, 150, 180, 250, 345	
Answer (Please <u>click here</u> to Add Answer)	
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What is the probability that a poker hand of 5 cards contain (i) exactly 2 aces (ii) exactly 1 ace? (Use hypergeometric distribution)				
Inswer (Please <u>click here</u> to Add Answer)				
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If n=22, $\sum (d - \overline{d})^2 = 270, \overline{d} = 4$

Then, using a 0.05 level of significance level, test the hypothesis $H_0: \mu_d = 0$ against $H_1: \mu_d \neq 0$

Answer (Please click here to Add Answer)

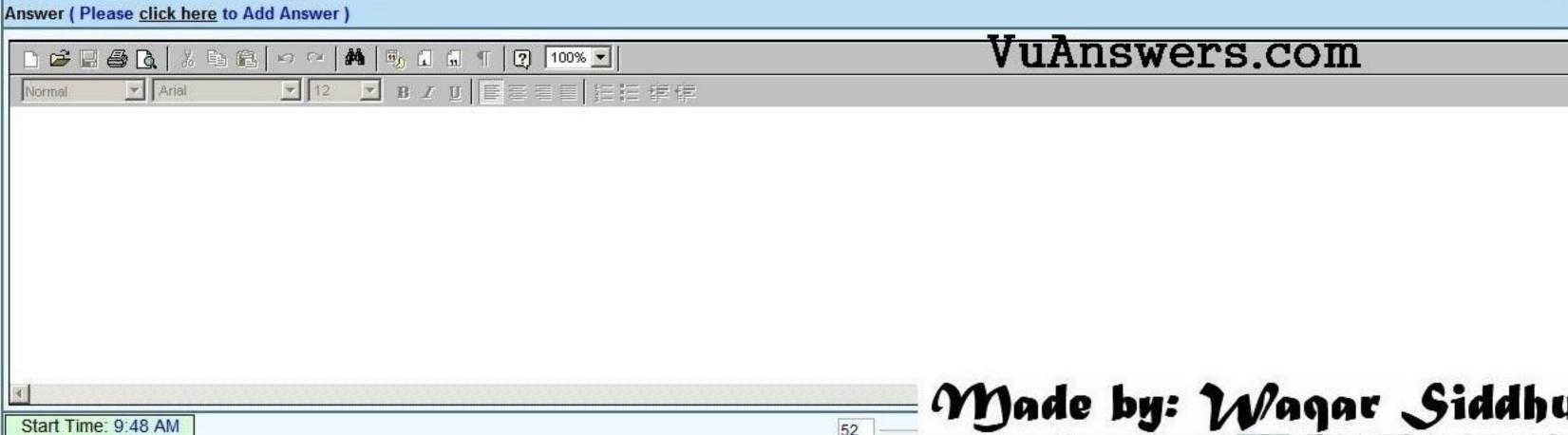
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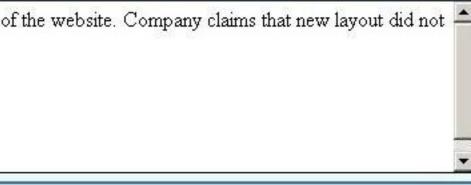
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A company launched new layout of its website. After a survey, 62 of 115 visitors liked the new layout while 59 of 135 visitors liked the old layout of the website. Company claims that new layout did not 📤 improve the visitor's liking about the website. By using the critical value $Z \leq -Z_{0.05} = -1.645$, verify the company's claim: $H_{\rho}: P_1 - P_2 \ge 0$ $H_1: P_1 - P_2 \leq 0$





Question No : 41 of 52	
Name the measures of dispersion that are not based on all the values.	
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Marks: 2 (Budgeted Time 4 Min)

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Question No : 42 of 52	
When we use two-tailed test?	
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test : A hypothesis test in which rejection of the null hypothesis occurs for values of the test statistic in either tail of the sampling distribution.	

1

Marks: 2 (Budgeted Time 4 Min)



Question No : 43 of 52
For a sample data n = 15, calculate $t_{\frac{\alpha(\nu)}{2}}$ for $\alpha = 0.10$.

Answer (Please	click here	to Add Answer)
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Marks: 2 (Budgeted Time 4 Min)

uestion No : 44 of 52	
Suppose we want to determine the proportions of smokers and non smoker in a city? In this situation what type of distribution we ca	m use?
nswer (Please <u>click here</u> to Add Answer)	uAn
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following proportions, we are dealing with a BINOMIAL situation: • Proportion of smokers in a city smoker → success, non-smokers → failure. • Proportion of literates in a community → literacy rate, literate → success, illiterate → failure. • Proportion of males in a city → <i>sex ratio</i>).	

Q



Marks: 2 (Budgeted Time 4 Min)

Question No : 45 of 52	
If mean of a distribution is 20 and standard deviation is 2. Find out $\mu \pm 2\sigma$ limits by applying empirical rule. What percent o	f data will lies betwe
Answer (Please <u>click here</u> to Add Answer)	VuAns
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 According to this empirical rule: Approximately 68% of the measurements will fall within 1 standard deviation of the mean, i.e. within the interval (-X - S, -X + S) Approximately 95% of the measurements will fall within 2 standard deviations of the mean, i.e. within the interval (-X - S, -X + S) 	
 interval (-X - 2S, -X + 2S). Approximately 100% (practically all) of the measurements will fall within 3 standard deviations of the mean, 	
i.e. within the interval (-X - 3S, -X + 3S).	

Q



Marks: 3 (Budgeted Time 6 Min)

ween these two limits?

swers.com

calculate app keroo hun

Question No : 46 of 52	
Suppose X is a random variable having Poisson distribution with its parameter value 3, find value of	P(X=1).
Answer (Please <u>click here</u> to Add Answer)	VuAns
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The Poisson distribution has only one parameter $\mu > 0$. $\mu=3$ (X=1) $\lim_{\substack{n\to\infty\\p\to 0}} b(x;n,p) = \frac{e^{-\mu}\mu^x}{x!}, x = 0,1,2,,\infty$ where e = 2.71828. $\mu = 0,1,2,,\infty$ $\mu = 0,1,2,,\infty$ $\mu = 0,1,2,,\infty$	calculate easi
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Marks: 3 (Budgeted Time 6 Min)



Question No : 47 of 52

If X = 341, n = 634, $p_0 = 0.50$ then find the z-test statistic for proportion. Answer (Please click here to Add Answer) 👫 🗓 🖬 ¶ 📿 100% 💌 - Ariai ▼ 12 Normal Step 4: Step 3: Test statistic: Computation: page 289 Here np0 = 634 (0.50) = 317 $Z = \frac{X \pm \frac{1}{2} - n p_0}{\sqrt{n p_0 (1 - p_0)}}$ and X = 341Hence $X \ge np0$ so use $X - \frac{1}{2}$ So $Z = \frac{341 - \frac{1}{2} - 317}{\sqrt{634(0.50)(0.50)}} = \frac{23.5}{12.59}$ = 1.87Pa. 1

Marks: 3 (Budgeted Time 6 Min)

VuAnswers.com



Qu	est	tio	n N	0:	48	of	52
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A random sample of size n is drawn from normal population with mean 5 and variance σ^2 If s=2.5, $\overline{x} = 7$ and t=3, then what is the values of n?

Answer (Please click here to Add Answer)

VuAnswers.com

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The test-statistic to be used is

$$t = \frac{\overline{X} - \mu_0}{s/\sqrt{n}}$$

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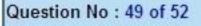
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Marks: 3 (Budgeted Time 6 Min)



A random variable X is normally distributed with μ = 50 and σ^2 = 25. Find the probability	of X larger than 54.
Answer (Please <u>click here</u> to Add Answer)	VuAns
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The test-statistic to be used is $\mathbf{Z} = \frac{\overline{X} - \mu_0}{\underset{,}{\text{sigma}}}$	hare give sigma sqr, take under root sigma= 5 mue alsi give and X= 54 we find X (54-50)/5= 4/5
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swers.com

X>54

its half ques see these type of ques 70 % slove now.. 30 % see table etc

Made by: Waqar Siddhu

Question	No : 50	of 52
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Find the coefficient of variation (C.V) for the following price of a commodity. Price (X): 8, 13, 18, 23, 30

Answer (Please click here to Add Answer)

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COEFFICIENT OF VARIATION

$$C.V. = \frac{S}{\overline{X}} \times 100$$

$$S = \sqrt{\left\{\frac{\sum x^2}{n} - \left(\frac{\sum x}{n}\right)^2\right\}}$$

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Marks: 5 (Budgeted Time 10 Min)





Question No : 51 of 52

The given data is <i>n</i> = 1150, <i>x</i> = 450, <i>p</i> = 0.39, <i>H</i> ₀ : <i>p</i> ₀ = 0.3, <i>α</i> = 0.01	
Test the stated hypothesis. (Use table value of $z = \pm 2.58$)	
Answer (Please <u>click here</u> to Add Answer)	VuAns
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Qu	esti	on	No	: 52	of	52

Given, $n_1 = n_2 = 16$, $s_1^2 = 50$, $s_2^2 = 16$, Construct a 90% confidence interval for the variance ratio $\frac{\sigma_1^2}{\sigma_2^2}$.	
Answer (Please <u>click here</u> to Add Answer)	VuAns
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Question No : 41 of 52	
Describe the Poisson distribution as the limiting form of the binomial distribution.	
Answer(Please <u>click here</u> to Add Answer)	VuAn
	Mode



Question No : 42 of 52	
Define Disjoint Sets.	
Answer (Please <u>click here</u> to Add Answer)	VuAn
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Question No : 43 of 52	
What is acceptance region?	
Answer (Please <u>click here</u> to Add Answer)	VuAn
	Made



Question No : 44 of 52	
If there are K treatments and R rows in a Randomized Complete Block Ddesign then calculate the total number of exp	perimental units used.
Answer (Please <u>click here</u> to Add Answer)	VuAn
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Question No : 45 of 52	
In how many ways a three-person committee can be formed from a group of ten persons? (Use the formula)	
Answer (Please <u>click here</u> to Add Answer)	VuAn
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Question No: 46 of 52

From the given data, calculate mean and standard deviation of sampling distribution of mean if the sampling is done with replacement.

 $N = 120, n = 64, \mu = 50, \sigma = 2$

Answer (Please click here to Add Answer)



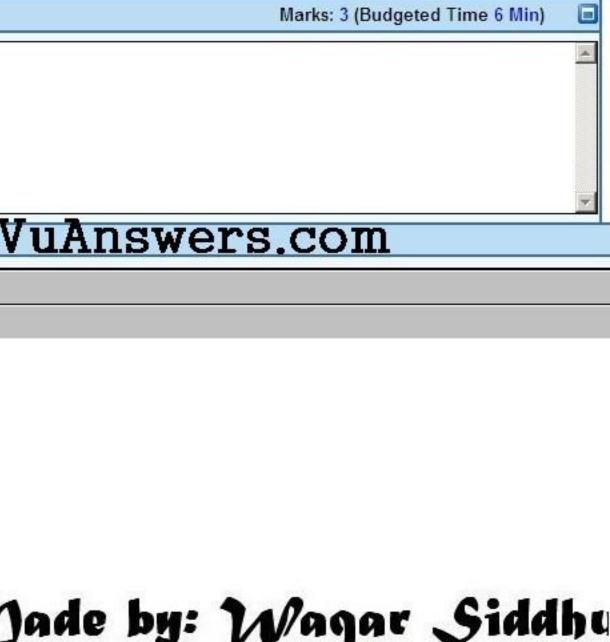
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Question No: 47 of 52

Construct 90% confidence interval for the difference in means $\mu_1 - \mu_2$ in case of paired observations, where $\overline{d} = 1.8$, $s_d = 1.32$, $t_{0.05(9)} = 1.833$

Answer (Please click here to Add Answer)



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Question No: 48 of 52

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Question No: 49 of 52

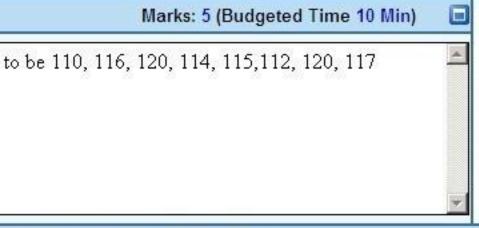
A man travels on car from Lahore to karachi on Motor way in 8 stages of equal intervals. The speed of the car in the various stages was observed to be 110, 116, 120, 114, 115, 112, 120, 117 kilometers per hour. Find the average speed at which the car travels.

Answer (Please click here to Add Answer)

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Question No : 50 of 52

A random sample of size three is drawn without replacement from the population consisting of four numbers 4, 5, 5, 7. Sampling distribution of sample means is calculated as below;

Sample Means $\left(\overline{X} ight)$	$f(\bar{X})$	
14/3	1/4	
16/3	2/4	
17/2	17/4	

Answer (Please click here to Add Answer)

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Marks: 5 (Budgeted Time 10 Min)

Question No : 51 of 52

If $n = 1150$, $x = 450$, $p = 0.39$, $H_0 : p_0 = 0.5$, and $\alpha = 0.03$	5
Test the stated hypothesis.	
(Use table value of $z = \pm 1.96$)	

Answer (Please click here to Add Answer)

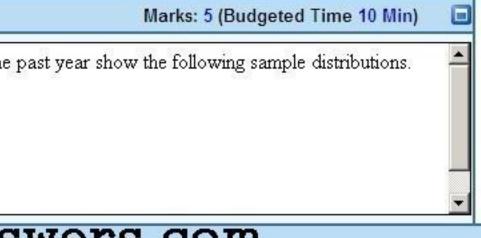
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Question No : 52 of 52

A personal manager	is interested in t	trying to determi	ne whether absen	teeism is great	er on some specific o	lay of the week	or not? His reco	ords for the
Day of the week:	Monday	Tuesday	Wednesday	Thursday	Friday	, of the woole	01110011101000	T GO LOI MIC
No. of absentees:	66	57	54	48	75			
Test goodness of fit.								
Where test statistic a	chi – square =]	$\sum \frac{(o_i - e_i)^2}{e_i} = 7$	7.50					
Answer (Please <u>clic</u>	<u>k here</u> to Add A	Answer)					٧u	Ans
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In how many branches, estimation can be divided? Also write down the names of the branches.	
Answer (Please <u>click here</u> to Add Answer)	VuAns
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A Sample has following values. 101, 99, 111, 199, 150, 140 Find out the maximum likelihood estimate of population mean.

Answer (Please click here to Add Answer)

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Write d	own critical region for the following hypothesis.
$H_0: \sigma^2$	= 20
$H_1: \sigma^2$	< 20
Where,	$\alpha = 0.01$ and n=10

Answer (Please click here to Add Answer)

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What is the concept of extrapolation in regression analysis?	
Answer (Please <u>click here</u> to Add Answer)	Vulland
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If Z is a standard normal random variable with mean 0 and variance 1, then find the Lower quartile.	
Answer (Please <u>click here</u> to Add Answer)	VuAns
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For the following table we want to test the independence of smoking pattern and marital status. What will be the degrees of freedom for the chi-square test of independence?

	Sm	noking Patterr	ı	
Marital Status	Total self-restraint	Only at times	Regular Smoker	Total
Single	67	213	74	354

Answer (Please click here to Add Answer)

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Find the proportion for the X ₁ and X ₂ , Where X ₁ =300 with sample size= n_1 = 400 and X	$f_2 = 200$ with sample size = $n_2 = 300$.
Answer (Please <u>click here</u> to Add Answer)	T7 7
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Calculate class	boundaries	from the	following	data.
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Age Group	f	
20-29	2	
30-39	4	
40-49	5	0

Answer (Please click here to Add Answer)

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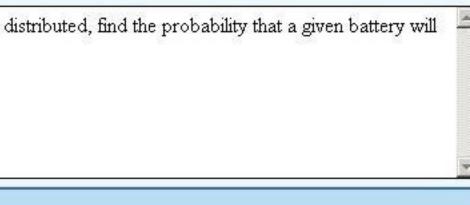


A certain type of storage battery lasts on the average 3.0 years, with a standard deviation of 0.5 year. Assuming that the battery lives are normally distributed, find the probability that a given battery will last less than 2.3 years.

Answer (Please click here to Add Answer)

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For the Given information, what is your conclusion in testing the indicated null hypothesis? $n_1 = 13, n_2 = 41, s_1^2 = 6.3, s_2^2 = 15.6$, $H_0: \sigma_1^2 = \sigma_2^2$ and $H_1: \sigma_2^2 > \sigma_1^2$

Answer (Please click here to Add Answer)

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In a random sample of 200 persons having their lunch at the University cafeteria on meatless day it was observed that 30 perce		
Answer (Please <u>click here</u> to Add Answer)	TT 7	
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ble dishes.Find 95% confidence interval for p.



Answer the following questions:

- i. Which method has been used for colleting the data in the following case?
 - "An investigator collects the information personally from the individuals concerned".
- Find the sampling error when the population mean is 15.785 and sample mean is 15.6.
- ii. Write down any two types of nonrandom sampling
- iii. What is the singular of strata?





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Question No : 41 of 52	
Write down the name of methods/techniques that are used to represent the quantitative discrete data.	
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Marks: 2 (Budgeted Time 4 Min)

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Question	No:4	12 of	52

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	A coin is tossed 900 times and heads appear 490 times. State the null and alternative hypotheses to show the	at the coin is unbiased.
	Answer(Please <u>click here</u> to Add Answer)	VuAns
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Question No : 43 of 52	
Write down the names of two types of experimental designs.	
Answer (Please <u>click here</u> to Add Answer)	VuAns
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Question No : 44 of 52	
What are the mean and variance of binomial distribution?	
Answer (Please <u>click here</u> to Add Answer)	VuAns
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Question No : 45 of 52	
Find the probability of drawing a white ball from a bag containing 4 red, 8 black and 3 white balls.	
Answer (Please <u>click here</u> to Add Answer)	VuAns
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Question No : 46 of 52	
Write down the properties of sampling distribution of proportion \hat{p} , when sampling is performed without replacement.	
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If X = 255, n = 500, $p_0 = 0.60$ then find the z-test statistic for proportion.

Answer (Please click here to Add Answer)

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Marks: 3 (Budgeted Time 6 Min)

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Question No	: 48	of 52
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What is the impact of degrees of freedom on chi- square distribution?	
Answer (Please <u>click here</u> to Add Answer)	VuAns
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Question	I NO	: 49 0	1 32

Find quartile deviation for the data given below: 18, 53, 45, 28, 39, 29, 23, 40 and 21

Answer (Please click here to Add Answer)

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Question No	: 50	of 52
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A population consists of N=5 values 1, 2, 3, 5, 6.A sample size of n=3 is selected from the population v	without replacement, calculate sampling distri
Answer (Please <u>click here</u> to Add Answer)	VuAns
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tribution of sample proportions for even numbers.



Question No : 51 of 52	
Write down the testing procedure in case of goodness of fit test.	
Answer (Please <u>click here</u> to Add Answer)	VuAna
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Question No : 52 of 52	
If we have n=634 and $\hat{p} = 0.459$, where $Z_{0.01} = 2.58$, then find the 99% confidence interval for population proportion.	
Answer (Please <u>click here</u> to Add Answer)	VuAns
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