

Correct! there are more than two groups

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	O ANOVA						
O Z-test							
	O T-test						
	 Chi-Square Test for As 	sociation					
	Orrect!						
If I wanted to test for association using chi-square test, whether there is an association between gender (Male or Female) and tenure-ship (tenured or not tenured), what will be my degree of freedom?							
	and tendre sinp (tendred)	n not tenured _j , what	will be my degree of the	edom			
	1						
	Formula for degree t						
	Consider a normally distril			nd standard deviation	σ= 13.27 inches. What is the	1/1	
	Consider a normally distril z-score when x = 91.54 incl			nd standard deviation	σ= 13.27 inches. What is the	1/1	
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	Consider a normally distrit z-score when x = 91.54 incl 2.137			nd standard deviation	σ= 13.27 inches. What is the	1/1	
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	Consider a normally distril z-score when x = 91.54 incl 2.137 Correct	nes? (To 3 decimal pla	ices)			1/1	
	Consider a normally distrit z-score when x = 91.54 incl 2.137			d standard deviation	σ= 13.27 inches. What is the		
	Consider a normally distril z-score when x = 91.54 incl 2.137 Correct	A 24 19	B 26 24	C 18 18	D 27 24		
	Consider a normally distril z-score when x = 91.54 incl 2.137 Correct	A 24 19 22	B 26 24 20	C 18 18 20	D 27 24 22		
	Consider a normally distril z-score when x = 91.54 incl 2.137 Correct	A 24 19	B 26 24	C 18 18	D 27 24		

5.	A room in a laboratory is only considered safe if the mean radiation level is 400 or less. When a sample of 10 radiation measurements were taken, the mean value of the radiation was 414 with a standard deviation of 17. There are concerns that mean radiation is above 414. Radiation levels in the lab are known to follow a normal distribution with standard deviation 22. We will like to conduct a hypothesis test at the 5% level of significance to determine whether there is evidence that the laboratory is unsafe. What will be the appropriate test?	1/1 point				
	O t-test					
	O ANOVA					
	O Chi-square					
	Correct! We use a z-test when the population standard deviation is known					
6.	The mineral content of a particular brand of supplement pills is normally distributed with mean 490 mg and variance of	1/1 point				
	400. What is the probability that a randomly selected pill contains at least 500 mg of minerals?					
	○ 0.3085					
	0.2023					
	0.0525					
	0.7967					
	⊘ Correct!					
7.	The P-value for a normally distributed right-tailed test is P=0.042. Which of the following is INCORRECT ?	1/1 point				
	The z-score test statistic is approximately z=1.73					
	The P-value for a left-tailed test based on the same sample would be P= -0.042					
	We will reject H0 at α=0.05, but not at α=0.01					
	The P-value for a two-tailed test based on the same sample would be P=0.084					
	Correct P-values are proportion and range from 0 to 1. The left-tail test for this will also be 0.042					
8,	The time X taken by a cashier in a grocery store express lane to complete a transaction follows a normal distribution with mean 90 seconds and standard deviation 20 seconds. What is the first quartile of the distribution of X (in seconds)?	1/1 point				
	O 81.2					
	O 88.0					
	O 73.8					
	76.6					
	⊘ Correct Correct!					

9.	 A man accused of committing a crime is taking a polygraph (lie detector) test. The polygraph is essentially testing the hypotheses 					
	H0: The man is telling the truth vs. Ha: The man is not telling the truth.					
	Suppose we use a 5% level of significance. Based on the man's responses to the questions asked, the polygraph determines a P-value of 0.08. We conclude that:					
	 The probability that the man is not telling the truth is 0.08. We fail to reject the null hypothesis as there is insufficient evidence that the man is not telling the truth. 					
	 We reject the null hypothesis as there is sufficient evidence that the man is telling the truth. 					
	The probability that the man is telling the truth is 0.08.					
	Correct! p-value is greater than 0.05					
10	The average hourly wage at a fast-food restaurant is \$5.85 with a standard deviation of \$0.35. Assume that the wages are normally distributed. The probability that a selected worker earns more than \$6.90 is	1/1 point				
	O 0.4987					
	O 0.9987					
	● 0.0013					
	O 0					
	⊘ correct Correct!					