	Name:	
	ID:	
	Quiz section or time:	
	Stat/Math 390, Spring, Test 3, June 5, 2015; Marzban Same deal as test 1,	(115+23)
Point	ts Let 18, 7.3)	
	1. We have learned a procedure that can give a sense of the minimum necessary s	_
1.5	a study, based on considerations of a CI (for a mean, for example). Which of the f	
	necessary for that minimum-sample-size-estimation procedure? (a) Confidence level b) sample mean (c) sample standard deviation (d) desired with the confidence level (e) t	
		H#5/17/=B
1	2. Generally, for which of the following can one NOT build a CI and do hypothesis	1 1
	a) difference between two pop proportions d) ratio of two pop variances	
	b) ratio of two pop proportions e) prediction from a population	regression
	c) difference between two pop variances f) None of the above	
-	(at (9, P.1)	
1	3 Fill in the blanks in the following statement, using the list of phrases appearing In deriving a formula for a CI for a, we need the of a, and the variation of the list of phrases appearing I	
		ero, if a
1	A lower confidence bound for $\mu_1 - \mu_2$ is the upper confidence bound for μ_2	$-\mu_1$.
	a) equal to (b) equal to the negative of	c) unrelated to
	$(\overline{v}_2 - \overline{v}_1) + t^* \sqrt{-1}$	•
	5. Suppose we have tested H0: $\pi_1 - \pi_2 \leq 0.6$ versus H (: $\pi_1 - \pi_2 > 0.6$, and found	a p-value less
	than $\alpha = 0.05$. Which of the following is/are correct?	
	a) We can be 95% confident that π_1 exceeds π_2 . b) We can be 95% confident that π_1 exceeds π_2 by at least 0.6.	
	c) There is a 95% chance that π_1 exceeds π_2 by at least 0.6.	
	d) There is a 5% chance that π_1 does not exceed π_2 by 0.6.	
	X	
1	6. Suppose you have collected data, and performed a hypothesis test, leading to p-v	value $< \alpha$. But
	suppose you simply don't like the conclusion. What is the most appropriate action yo	ou snould take:
	· · · · · · · · · · · · · · · · · · ·	e of the above.
1	The control of the co	ourses, and you
_	have numerical grades for each course. Suppose you have a feeling that you are eq	
	measured by gpa) in those three fields. What is the most appropriate test for testin	
	a) z-test b) t-test c) chi-squared d) 1-way ANOVA F-test e) F-test o	
	Ho: M= M2 = M3, H1: A+ least 1,	
	8. Based on everything you now know about regression, which of the following probability of the given m ² . In all of the following a in just a constant	os can NOT be
1	computed, at a given x ? In all of the following c is just a constant. a) $prob(y > c)$, where y is a random y value.	
1	b) $\operatorname{prob}(\hat{y}(x) > c)$, where $\hat{y}(x)$ is a random prediction of the mean of y-values at a given	iven x .
	c) $\operatorname{prob}(\hat{y}(x) > c)$, where $\hat{y}(x)$ is a random prediction for a single case, at a given x .	
	(d) $prob(y(x) > c)$, where $y(x)$ is the true/population prediction at a given x .	
	(Lut 18)	
1	95% CI for $y(x)$ will cover individual observed values of y than 95% of think of both the CI and the PI.	the time. Hint:
	think of both the CI and the PI. (a) less often (b) equally often	c) more often
		of more offen
	The PI covers individual cases 95% of The time. But PI > CI.	



