8) ____

_		
MULTIPLE CHOICE.	Choose the one alternative that best com	pletes the statement or answers the question.

pter / & 9		Circle	2:	
LTIPLE CHOICE. Choose t	the one alternative that	best completes the state	ment or answers the question	n.
vide an appropriate respons	ıα			
		4 vears. If a hypothesis to	est is performed, how should	1)
_	on that rejects the null hy		periorinea, no vi ono ara	-/
-	nt evidence to support th	-		
	icient evidence to suppo	•		
	nt evidence to reject the	•		
	icient evidence to reject	•		
2) The mean score for all	l NBA games during a p	articular season was less	s than 106 points per game. If	2)
a hypothesis test is pe	rformed, how should yo	ou interpret a decision th	at rejects the null	
hypothesis?				
A) There is sufficien	nt evidence to reject the	claim μ<106.		
B) There is not suff	icient evidence to reject	the claim μ < 106.		
C) There is sufficien	nt evidence to support th	ne claim μ < 106.		
D) There is not suff	icient evidence to suppo	ort the claim μ < 106.		
3) A candidate for gover	nor of a certain state clai	ims to be favored by at l	east half of the voters. If a	3)
hypothesis test is perf	formed, how should you	interpret a decision that	rejects the null hypothesis?	
A) There is not suff	icient evidence to suppo	ort the claim $\varrho \ge 0.5$.		
B) There is sufficien	nt evidence to reject the	claim φ ≥ 0.5.		
C) There is not suff	icient evidence to reject	the claim ǫ ≥ 0.5.		
D) There is sufficien	nt evidence to support th	ne claim $\varrho \ge 0.5$.		
4) The dean of a major u	niversity claims that the	mean time for students	to earn a Master's degree is	4)
at most 3.8 years. If a	hypothesis test is perform	med, how should you in	terpret a decision that fails to	
reject the null hypothe	esis?			
A) There is sufficient	nt evidence to reject the	claim μ ≤ 3.8.		
	icient evidence to suppo			
	icient evidence to reject	•		
D) There is sufficien	nt evidence to support th	ne claim µ ≤ 3.8.		
5) Suppose you are using	g $\alpha = 0.05$ to test the clai	im that $\mu \neq 36$ using a P-	-	5)
value. You are given t	$\frac{-}{1}$ the sample statistics $n = 3$	35, $x = 35.1$. Let $\sigma = 2.7$. F	ind the P-value.	
A) 0.0591	B) 0.1003	C) 0.0488	D) 0.0244	
6) Find the critical value	for a right-tailed test wi	ith $\alpha = 0.01$ and $n = 75$	o is known.	6)
A) 1.96	B) 2.575	C) 2.33	D) 1.645	
7) Suppose you are using	g $\alpha = 0.01$ to test the clai	im that $\mu = 1120$ using a	P-	7)
value. You are given t	the sample statistics $n = 3$	35, $x = 1090$. Let $\sigma = 82$.	Find the P-value.	
A) 0.0077	B) 0.0308	C) 0.3169	D) 0.0154	

8) Find the critical value for a left-tailed test with α = 0.025 and n = 50. σ is known. A) -1.645 B) -2.575 C) -2.33 D) -1.96

9) Find the critical values for a sample with n = 10 and α = 0.05 if H₀: μ ≥ 20. σ is unknown.

9) _____

A) -1.833

B) -2.262

C) -3.250

D) -1.383

10) You wish to test the claim that $\mu \neq 17$ at a level of significance of $\alpha = 0.05$ and are given sample statistics n = 35, x = 16.1, and s = 2.7. Compute the value of the standardized test statistic. Round your answer to two decimal places.

10) _____

A) -1.83

B) -1.97

C) -3.12

D) -2.86

11) Calculate the correlation coefficient, r, for the data below.

11) _____

x	-10	-8	-1	-4	-6	-7	-5	-3	-2	-9
y	-12	-10	7	-1	-4	-8	-3	1	4	-10
A)	0.990	•	B) 0.792			C) 0.819				

D) 0.881

Answer Key
Testname: EXAMC7_9

- 1) C 2) C 3) B 4) C 5) C 6) C 7) B 8) D 9) A 10) B 11) A

- 1) ______ 2) _____ 3) _____ 4) _____ 5) ____ 6) _____ 7) ____ 8) ____ 9) ____ 10) ____ 11) ____