oractice(chapter7)						
Name						
MULTIPLE CHOICE. Choo	ose the one alternative that	best completes the stateme	ent or answers the question	n.		
Solve the problem.						
1) What is $z_{\alpha/2}$ when				1)		
A) 1.645	B) 2.575	C) 1.96	D) 2.33			
A) The probabil B) 95% of the o C) In repeated s population r	phrase 95% confident means lity that the sample mean fal bservations in the populatio sampling, 95% of similarly co nean. arly constructed intervals w	lls in the calculated interval on fall within the bounds of constructed intervals contain	l is 0.95. the calculated interval. n the value of the	2)		
2) A 00% confidence	intowval for the average cale	owy of all CEOs in the electr	onics industry was	2)		
constructed using Give a practical in A) 90% of all Cl B) We are 90% to \$113,695. C) We are 90% interval \$99,	interval for the average salathe results of a random surviterpretation of the interval. EOs in the electronics indust confident that the mean salation confident that the mean salation salation (113,695). Impled CEOs have salaries to the entire that the mean salation salat	vey of 45 CEOs. The interval try have salaries that fall be ary of the sampled CEOs fai ary of all CEOs in the electr	al was (\$99,943, \$113,695). etween \$99,943 to \$113,695. lls in the interval \$99,943 onics industry falls in the	3)		
4) Suppose a 95% confidence interval for μ turns out to be (140, 260). To make more useful inferences from the data, it is desired to reduce the width of the confidence interval. What will result in a reduced interval width?A) Increase the sample size and decrease the confidence level.						
	confidence level.					
C) Increase the D) All of the ch	sample size. oices will result in a reduced	l interval width.				
SHORT ANSWER. Write th	ne word or phrase that best	completes each statement	or answers the question.			
to estimate the me 24-hour period. T	stablishment of personnel re- ean number of people who a he director randomly selects mber of admissions for each	re admitted to the emergers 64 different 24-hour perio	ncy room during a ods and			
1. Give a point est	imate of the mean number o	of admissions per 24-hour	period.			
2. Estimate the moconfidence interv	ean number of admissions p al.	oer 24-hour period with a 9	95%			
3. Interpret the co	nfidence interval.					

6)	The increasing cost of healt sample of 23 small compan The mean health insurance deviation was \$32.	ies that offer paid h	ealth insurance as a bene	fit was selected.	
	1. Give a point estimate of companies.	the mean health cos	t per worker per month fo	or all small	
	2. Calculate a 90% confider all small companies.	nce interval for the n	nean health cost per work	er per month for	
	3. Interpret the confidence	interval.			
7)	A survey of 280 homeless p	persons showed that	63 were veterans.	7)	
	1. find the point estiamte for veterans.	or estimating the pro	pportion of homeless pers	sons who are	
	2. Estimate the true propor confidence interval.	tion of homeless per	rsons who are veterans u	sing a 99%	
	3. Interpret the confidence	interval.			
MULTIP	LE CHOICE. Choose the or	ne alternative that b	est completes the statem	ent or answers the question	n.
	n appropriate response. A nurse at a local hospital is sample must she select if sl the sample mean? The stan	ne desires to be 95% dard deviation of th	confident that the true m te birth weights is known	to be 6 ounces.	8)
	A) 3	B) 4	C) 15	D) 16	
9) A manufacturer of golf equipment wishes to estimate the number of left-handed golfers. How large a sample is needed in order to be 95% confident that the sample proportion will not differ from the true proportion by more than 4%? A previous study indicates that the proportion of left-handed golfers is 9%.					9)
	A) 217	B) 139	C) 197	D) 19	
10)	A pollster wishes to estima How large a sample is need differ from the true propor	ded in order to be 98	3% confident that the sam		10)
	A) 20	B) 1509	C) 3017	D) 1068	

Answer Key Testname: PRACTICE-CH7(A)

- 1) B 2) C 3) C 4) D 5) 15.4 ± 1.288 6) 132 ± 11.457
- 7) $.5625 \pm .0202$

- 8) D 9) C 10) B