STA2023

1) Use the given data to construct a confidence interval of the requested level.				1)
x = 80, n = 198	, confidence level 999	%		
A) 0.323 < <i>p</i> < 0.485		B) 0.369 < p < 0	B) 0.369 < <i>p</i> < 0.439	
C) 0.314 < <i>p</i> < 0.	.494	D) 0.173 < p < 0	0.635	
2) In a survey of 298 registered voters, 150 of them wished to see Mayor Waffleskate lose				2)
her next election.	Construct a 90% confi	dence interval for the pr	coportion of registered	
voter who want to	see Mayor Waffleska	te defeated.		
A) 0.466 < <i>p</i> < 0.541		B) 0.474 < <i>p</i> < 0.532		
C) 0.456 < <i>p</i> < 0.	.551	D) 0.425 < p < 0	0.582	
3) A survey of 800 women shoppers found that 17% of them shop on impulse. What is the				3)
98% confidence in	terval for the true prop	portion of women shopp	pers who shop on	
impulse?				
A) 0.139 < <i>p</i> < 0.201		B) 0.167 < p < 0	B) 0.167 < <i>p</i> < 0.173	
C) 0.144 < <i>p</i> < 0.	.196	D) 0.136 < p < 0	0.204	
4) A random sample of 100 voters found that 46% were going to vote for a certain				4)
candidate. Find th	e 90% confidence inte	erval for the population	proportion of voters who	
will vote for that c	andidate.			
A) 39.6% < <i>p</i> < 52.4%		B) 38.7% < <i>p</i> < 53.3%		
C) 37.8% < <i>p</i> < 54.2%		D) 41.9% < <i>p</i> < 50.1%		
5) It was found that in a sample of 90 teenage boys, 70% of them have received speeding				5)
tickets. What is th	e 90% confidence inte	erval of the true proport	ion of teenage boys who	
have received spee	ding tickets?	1 1		
A) $0.620 B) 0.615$				
C) $0.584 D) 0.59$		D) 0.591 < p < 0	0.812	
(4) Λ report states that	40% of home owners	s have a vegetable garde	n How large a sample	4)
is needed to estimate the true proportion of home owners who have vegetable gardens to				0)
within 6 percentag	e points with 96% cor	fidence?	ave vegetable galdelis to	
A) 281	в) 141	C) 83	D) 205	
7) John Davis, a manager of a supermarket, wants to estimate the proportion of customers				7)
who use food stamps at his store. He has no initial estimate of what the sample				·/
proportion will be. How large a sample is required to estimate the true proportion to				
within 3 percentage points with 98% confidence?				
A) 1,509	в) 1,067	C) 756	D) 1,849	
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Answer Key Testname: PRACTICE21

- 1) C 2) C 3) A 4) C 5) A 6) A 7) A