## Home work # 06

Name					
linked to a cert gene, would it	ous studies, researchers ain childhood disease. If be unlikely for them to f appropriate z-score. 4.41 4.41 0.005 6.59	the researchers tes	950 newborns	for the presence of this	1)
candies are pac sampling distr A) mean = 2 B) mean = 2 C) There is r D) mean = 7	error of the sampling di any claims that its jelly be kaged at random in sma bution model of the pro 1%; standard error = 2.0 1%; standard error = 0.8 not enough information in 9%; standard error = 0.8 9%; standard error = 2.0	pean mix contains 2 all bags containing a portion of blue jelly % % to describe the distr %	% blue jelly be about 400 jelly beans in a baç	beans. Describe the	2)
II) the sar III) regard	ollowing are true: bulation distribution is a npling distribution of $\overline{x}$	is approximately no istribution, the mean	rmal for any n	_	3)
I) the sar II) the sar	ndard error decreases se	closer to the popula	ion mean	e population distribution	4)
1050 kWh and		218 kWh. If 50 diffe	rent homes are	randomly selected, find is greater than 1075 kWh.	5)
6) True or False: A	A sampling distribution	is a distribution for	a statistic.		6)

Provide a	n appropriate respons	se.			
7) In one region, the September energy consumption levels for single-family homes had a mean of 1050 kWh and a standard deviation of 218 kWh. Describe the center and spread of the sampling distribution of the sample mean for a random sample of 50 single-family homes from this region.  A) center = 1050, spread = 92.49  B) center = 1050, spread = 61.66					
	C) center = 1050, s D) center = 1050, s E) center = 1050, s	oread = 4.36 oread = 30.83			
8)	•		266 days and a standard de Dility that they have a mea	3	8)
	days and 268days. A) 0.2119	B) 0.7881	C) 0.5517	D) 0.2881	
9) Assume that blood pressure readings have a mean of 120 and a standard deviation of 8. If 100 people are randomly selected, find the probability that their mean blood pressure will be greater than 122.					
	A) 0.8819	B) 0.9938	C) 0.0062	D) 0.8615	
10)			omen have a mean of 63.6 omly selected, find the pro		10)
	mean height greater t A) 0.8989		C) 0.9918	D) 0.2881	
11)	A) The mean of the B) The shape of the	e sampling distribution is e sampling distribution is eviation of the sampling o	s always approximately no	•	11)
12)	A) It allows us to c B) It allows us to c C) It allows us to c population is la	lisregard the size of the sa lisregard the size of the p lisregard the shape of the rge.	nt to the study of sampling ample selected when the population we are sampling sampling distribution when n is larg	opulation is not normal. g from. en the size of the	12)
		ooll taken by CNN during	g the 2008 Democratic Prir	=	13)
	to predict Obama as t A) Yes, $0.52 > 0.50$ B) Yes, $z = 1.36$ C) No, $z \approx 0$ D) No, $z = 1.36$	he winner?	598 for Barack Obama. W	ould you have been willing	
14)	If the proportion of A	merican adults who belic	eve that America is ready f ard error for the proportic	for a woman 14)	

believe that America is ready for a woman president for a sample of size 1000?

15) The body temperatures of adults have a mean of 98.6° F and a standard deviation of 0.60° F. If 36 adults are randomly selected, find the probability that their mean body temperature is greater than	15) _	
98.4° F.		
A) 0.9360		
B) not enough information to determine		
C) 0.0228		
D) 0.9772		
E) 0.8188		
Select the most appropriate answer.		
16) A population distribution has mean 50 and standard deviation 20. For a random sample of size	16)	
100, the sampling distribution of the sample mean has		
A) mean 50 and standard error 2.		
B) mean 50/100 and standard error 20/100.		
C) mean 50 and standard error 0.20.		

D) mean and standard error that are unknown unless we know the exact shape of the population

distribution.

E) mean 50/10 and standard error 20/10.