1) A normal population has a mean $\mu = 31$ and standard deviation $\sigma = 8$ . What proportion of 1)				1)
the population is less	s than 29?			
A) 0.5987	в) 0.7517	C) 0.4013	D) 1.0000	
2) A normal population has a mean $\mu = 33$ and standard deviation $\sigma = 8$ . What is the				2)
probability that a randomly chosen value will be greater than 30?				
A) 0.3557	в) 0.7486	C) 0.7881	D) 0.6480	
3) The average length of crocodiles in a swamp is 12.5 feet. If the lengths are normally distributed with a standard deviation of 2.1 feet, find the probability that a crocodile is more than 12 feet long.				3)
A) 0.09	в) 0.91	C) 0.59	D) 0.41	
4) The average gas mile	eage of a certain mode	al car is 30.0 miles per q	allon. If the gas	4)
mileages are normally distributed with a standard deviation of 0.75 miles per gallon, find				4)
the probability that a car has a gas mileage of between 29.8 and 30.2 miles per gallon.				
A) 0.213	в) 0.273	C) 0.287	D) 0.107	
	,	,	,	
5) The average height of flowering cherry trees in a certain nursery is 9.5 feet. If the				5)
heights are normally distributed with a standard deviation of 1.3 feet, find the probability				
that a tree is less that	n 11.5 feet tall.			
A) 0.88	в) 0.94	C) 0.97	D) 0.82	
a Francisco de la coste				
6) For the standard nor	mal curve, find the z-s	score that corresponds to	the 90 <sup>th</sup> percentile.	6)
A) 0.28	B) 1.28	C) 1.52	D) 2.81	
7) The times for compl	eting one circuit of a l	oicvcle course are norma	ally distributed with a	7)
mean of 68.0 minutes and a standard deviation of 4.9 minutes. An association wants to				.,
sponsor a race but will cut the bottom 25% of riders. In a trial run, what should be the				
cutoff time?				
A) 64.7		<b>B)</b> 67.4		
A bottles of drinking water fills plactic bottles with a many values of 000 will'liters				0)
8) A dottier of drinking water fills plastic bottles with a mean volume of 999 milliliters (mL) and standard deviation 7 mL. The fill volumes are normally distributed. What is				8)
(mL) and standard deviation / mL. The first volumes are normally distributed. What is the probability that a bottle has a volume greater than $002 \text{ mL}^2$				
			0 0 0010	
A) 0.8413	B) 0.998/	C) 1.0000	D) 0.8810	

9) In order to be accepted into a certain top university, applicants must score within the top 5% on the SAT exam. Given that the exam has a mean of 1000 and a standard deviation of 200, what is the lowest possible score a student needs to qualify for acceptance into the university?

9)

A) 1250 B) 1100 C) 1328 D) 1400

Answer Key Testname: PRACTICE17

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