MULTIPLE CHOICE. Choose the best answer. Provide an appropriate response.							
1) Find	1) Find the area under the standard normal curve to the left of $z = 1.25$ (1)						
1) 1 ma (A)	0 1056	R) 0 2318	C 0 7682	(12 - 1.20)	1)		
A)	0.1050	D) 0.2310	C) 0.7002	D) 0.074	Ŧ		
2) Find the area of the indicated region under the standard normal curve. 2)							
	-1.3		1777-777				
A)	0.9032	B) 0.9177	C) 0.0823	D) 0.096	8		
3) Find the area under the standard normal curve between $z = -1.25$ and $z = -3)$ 1.25.							
A)	0.7888	B) 0.8817	C) 0.2112	D) 0.641	2		
<ul> <li>SHORT ANSWER.</li> <li>Provide an appropriate response. Use the Standard Normal Table to find the probability.</li> <li>4) IQ test scores are normally distributed with a mean of 100 and a 4)</li></ul>							
5) An a num appr prob than	irline knows from ber of suitcases th oximately normal ability that during 12 suitcases?	n experience that t nat get lost each w l with μ = 15.5 and g a given week the	he distribution of the distribution of the distribution of the eek on a certain round $\sigma$ = 3.6. What is the eairline will lose less	ne 5 ute is e ss	)		
6) The c appr Natio atten chole	distribution of cho oximately normal onal Center for Ho tion. Find the pro esterol level greate	olesterol levels in l with $\mu = 170$ and ealth Statistics). Le bability that a tee er than 210.	teenage boys is l $\sigma = 30$ (Source: U. evels above 200 war nage boy has a	6 S. trant	)		

- 7) Assume that the heights of women are normally distributed 7) \_\_\_\_\_ with a mean of 63.6 inches and a standard deviation of 2.5 inches. The cheerleaders for a local professional basketball team must be between 64 and 68.5 inches. If a woman is randomly selected, what is the probability that her height is between 64 and 68.5 inches? 8) The lengths of pregnancies are normally distributed with a 8) \_\_\_\_\_ mean of 268 days and a standard deviation of 15 days. Out of 50 pregnancies, how many would you expect to last less than 260 days? Provide an appropriate response. 9) \_\_\_\_\_ 9) Find the z-score that corresponds to the given area under the standard normal curve. 10) 10) Find the z-score that corresponds to the given area under the standard normal curve. 0.9564 11) Find the z-score for which 80% of the distribution's area lies to 11) \_\_\_\_\_ its left.
  - 12) For the standard normal curve, find the z-score that corresponds 12) \_\_\_\_\_ to the 40<sup>th</sup> percentile.

13) The scores on a mathematics exam have a mean of 62 and a standard deviation of 4. Find the x-value that corresponds to the z-score -1.79.	13)
14) The body temperatures of adults are normally distributed with a mean of 98.6° F and a standard deviation of 0.44° F. What temperature represents the 35th percentile?	14)
15) Assume that the salaries of elementary school teachers in the United States are normally distributed with a mean of \$32,000 and a standard deviation of \$3000. If 25 teachers are randomly selected, find the probability that their mean salary is less than \$32,500.	15)
16) Assume that blood pressure readings are normally distributed with a mean of 120 and a standard deviation of 8. If 81 people are randomly selected, find the probability that their mean blood pressure will be greater than 115.	16)
17) Assume that the heights of women are normally distributed with a mean of 63.6 inches and a standard deviation of 2.5 inches. If 50 women are randomly selected, find the probability that they have a mean height between 62 and 64 inches.	17)

18) \_\_\_\_\_

19) \_\_\_\_\_

18) A soda machine dispenses normally distributed amounts of soda with a mean of 24 ounces and a standard deviation of 0.9 ounce. A sample of 10 bottles is selected. What is the mean of the sampling distribution?

19) A soda machine dispenses normally distributed amounts of soda with a mean of 24 ounces and a standard deviation of 0.9 ounce. A sample of 10 bottles is selected. What is the standard deviation of the sampling distribution?

20) A soda machine dispenses normally distributed amounts of soda with a mean of 24 ounces and a standard deviation of 0.9 ounce. What is the probability of randomly selecting one bottle with more than 24.5 ounces if a sample of 10 bottles is chosen? Specify if you are using your calculator or if you are using Table 4 to find your answer. 20) \_\_\_\_\_