AP Stats

Ch. 5 Practice

Name _____ Pd _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Find the percent of a standard Normal model found in the given region. Round to the nearest hundredth of a percent

1 mu	-	i tornar mouel fou		ioni nound to the m		-
	1. z < 1.13					1
	A) 87.08%	B) 89.07%	C) 88.09%	D) 12.92%	E) 84.85%	
	2. $-0.55 < z < 0.55$					2.
	A) 41.76%	B) 90.00%	C) -41.76%	D) 43.57%	E) -90.00%	<i>Z</i>
	11) 11.7070	D) 90.0070	C) -41.70%	D) 40.07 /0	L) - 90.00 %	
	3. z > -1.82					3.
	A) 3.44%	B) 92.57%	C) 46.56%	D) 96.56%	E) -3.44%	
	40.73 < z < 2.27					4
	A) 22.11%	B) 154.00%	C) 76.47%	D) 48.84%	E) 75.57%	
Ina	standard Normal model, s	state what value(c)	of z cuts off the dee	cribed region		
111 a 3	5. the lowest 9%	state what value(s)	of z cuts off the des	cribed region.		5.
	A) -1.34	B) -1.39	C) 1.34	D) -1.26	E) –1.45	J
	11) =1.54	D) =1.59	C) 1.04	D) =1.20	L) -1.45	
	6. the highest 7%					6.
	A) 1.48	B) 1.26	C) 1.45	D) 1.39	E) –1.48	
	7. the middle 87.4%					7
	A) -1.53 to 1.53					
	B) -1.46 to 1.46					
	C) -1.45 to 1.45					
	D) -1.39 to 1.39					
	E) –1.00 to 1.00					
	8. the middle 96%					8
	A) –2.05 to 2.05					
	B) –2.33 to 2.33					
	C) -3.00 to 3.00					
	D) –1.75 to 1.75					
	E) 0 to 2.05					

Solve the problem. Round to the nearest tenth.

	9. For a recent Engl 90th percentile.	lish exam, use the No	Normal model N(73, 9.2) to find the score that represents the			
	A) 61.2	B) 82.2	C) 81.3	D) 84.8	E) 63.8	
		rmal model for snow the 25th percentile?	/fall in a certain towr	N(57, 8), how many	inches of snow	10
	A) 51.6 inches					
	B) 65 inches					
	C) 14.3 inches					
	D) 49 inches					
	E) 62.4 inches					
		rmal model for car s hest 15% of the spee	peeds on an old towr ds?	n highway N(77, 9.1),	what is the cutof	11
	A) about 65.5 i	mph				
	B) about 63.1	mph				
	C) about 67.5 i	mph				
	D) about 11.6	mph				
	E) about 86.5 i	mph				
		rmal model for car s ddle 20% of the spee	peeds on an old towr eds?	n highway N(77, 9.1),	what are the cutoff	12
	A) about 84.7	mph, about 69.3 mpl	n			
	B) about 86.1	mph, about 67.9 mpl	n			
	C) about 74.7	mph, about 79.3 mpł	n			
	D) about 61.6 i	mph, about 92.4 mpl	n			
	E) about 95.2 i	mph, about 58.8 mpl	n			
Solve	the problem. Round	to the nearest hund	lredth.			
	vehicles travel be		town highway trave pproximate standard priate)?	. 0.0	· •	13
	A) 10.14	B) 31.76	C) 49.29	D) 63.24	E) -10.14	

14. _____ 14. After increased patrol, 33% of vehicles on an old town highway travel below 45 mph with a standard deviation of 5.8. Assuming a Normal model is appropriate, find the mean speed. A) 14..85 mph B) -42.45 mph C) 47.55 mph D) 50.8 mph E) 1.91 mph 15. On a recent English exam, scores averaged 76 points. If 2% of scores fell above 95 points, find an 15. approximate standard deviation (assuming the Normal model is appropriate). A) -9.22 B) 9.22 C) 1.9 D) 83.01 E) 1.52 16. On a recent English exam, if 20% of scores fell below 60 points and the standard deviation is 6.0, 16. find the mean score (assuming the Normal model is appropriate). A) 65.04 B) -54.96 C) 1.20 D) 12 E) 66 Solve the problem.

D = D = 0.10 / 0 - 0 + 0.10 / 0 - 0.10 / 0 - 0 + 0.10 / 0 - 0 + 0.10 / 0 - 0 + 0.10 / 0 - 0 + 0.10 / 0 - 0 + 0.10 / 0 - 0 + 0.10 / 0 - 0 + 0.10 / 0 - 0 + 0.10 / 0 - 0 + 0.10 / 0 - 0 + 0.10 / 0 - 0 + 0.10 / 0 - 0 + 0.10 / 0 - 0 +	A) 59.87%	B) 40.13%	C) 9.87%	D) 38.21%	E) 47.15%
---	-----------	-----------	----------	-----------	-----------

Answer Key Testname: ZONK QUESTIONS

1. A 2. A 3. D 4. E 5. A 6. A 7. A 8. A 9. D 10. A 11. E 12. C 13. A 14. C

15. B

16. A 17. B