REVIEW3

STA2023

x	P(x)								
4	0.35								
5	0.2								
6	0.2								
7	0.25								
follow	ing distribu	ition is no	t a probab	ility distr	ibution k	20001160			2)
TOHOW	ing distribu	ITION IS NO	<i>i</i> a probab	inty distr		because _		_•	2)
X	-2	-1	0	1	2				
		-	· · ·						
P(X)	-2	0.14	-0.06	0.47	0.29				
) the pr	obability va	alues are r	not discrete	e B)	values o	of the var		negative	
) the pr	I	alues are r	not discrete	e B)	values o			negative	
) the pr) the pr	obability va obability va	alues are r alues do n	ot discrete ot add to 1	e B) D)) values o) a probal	of the var bility is r	negative	-	
) the pr) the pr e follow	obability va	alues are r alues do no resents the	ot discrete ot add to 1 e probabili	e B) D) ty distrib) values o a probal ution of	of the var bility is r the numb	negative per of	3)	
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) the pr) the pr follow ations λ $\frac{\lambda}{P(x)}$	obability va obability va ing table pa K taken last	alues are r alues do no resents the year for a 1 $20.68 0.$	not discrete ot add to 1 e probabili randomly $2 \qquad 3$ $15 \qquad 0.06$	e B) ty distrib chosen f $\frac{4}{0.02}$) values of a probal ution of camily. F	of the var bility is r the numb ind <i>P</i> (1 o	ber of or more).	3))

•	hat the lab conduc	a week, 52 weeks a ye ts. Prices for each wee	ear, from a rat supplier 5) Ekly shipment of rats		
Price	\$10.00 \$12.	50 \$15.00			
Probability	0.2 0.3				
	-	or next year's rat orders Find de expected price	-		
and guesses on ea correctly.	ch question. Find	the probability of gues	a three choices for each question ssing exactly 2 out of 15	6)	
A) 0.060	в) 0.333	C) 0.940	D) 0.133		
7) The Australian sheep dog is a breed renowned for its intelligence and work ethic. It is estimated that 30% of adult Australian sheep dogs weigh 65 pounds or more. A sample of 17 adult dogs is studied. What is the probability that no more than 3 of them weigh 65 lb or more?					
A) 0.0774	в) 0.7981	c) 0.201	9 D) 0.9226		
8) In a large bag of marbles, 30% of them are red. A child chooses 4 marbles from this bag. If the child chooses the marbles at random, what is the chance that the child gets exactly three red marbles?					
A) 0.076	в) 0.176	C) 0.108	D) 0.265		
9) A jewelry supplier has a supply of earrings which are 30% platinum. A store owner orders five sets of earrings from the supplier. If the supplier selects the pairs of earrings at random, what is the chance that the jewelry store gets exactly two sets of platinum pairs?					
A) 0.2205	в) 0.0810	C) 0.514	5 D) 0.3087		
10) It is estimated that 40% of households own a riding lawn mower. A sample of 13 households is studied. What is the probability that more than 10 of these own a riding lawn mower?					
A) 0.0013	в) 0.0001	C) 0.007	8 D) 0.9922		
11) A coin is tossed f A) 0.125	ive times. Find th B) 0.156	e probability of getting C) 0.313		11)	

0	A university has 10,000 s of 30 students is chosen number of male students A) 16.5	at random from the uni				12)
-	n a survey, 65% of the v andom, find the standar A) 5					13)
	A coin is tossed 72 times hat will be tossed.	s. Find the standard dev	viation for the number of	of heads	14)	
15) F	Find the area under the s	tandard normal curve to	the left of $z = 1.9$.		15)	
16) T	The probability $P(0 < z < z)$	< 0.97) is 0.3340.			16)	
17) F	Find the area under the s A) 0.4965	tandard normal curve to B) 0.9965	the right of <i>z</i> = 2.7. C) 0.0035	D) 0.0018		17)
	Find the z value to the right result of the right result of the second secon		62.93% of the area und	ler the	18)	
,	f a normally distributed leviation of 12, find the	0 1		tandard	19)	
	A normal population has probability that a random	•		What is the	20)	
n d	A bottler of drinking wat nilliliters (mL) and stan- listributed. What is the p nd 1002 mL?	dard deviation 7 mL. T	he fill volumes are norr	nally	21)	
s a v	Ars. Smith's reading clast tandard deviation of 20 a special award. What is would need to read in ord listributed.	words per minute. The the minimum number of	e top 3% of the class is of words per minute a s	to receive tudent	22)	

23) A survey of 250 lobster fishermen found that they catch an average of 32.0 pounds of lobster per day with a standard deviation of 4.0 pounds. If a random sample of 36 lobster fishermen is selected, what is the probability that their average catch is less than 31.5 pounds? Assume the distribution of the weights of lobster is normal.					
A) 18.93%	в) 20.28%	C) 22.66%	D) 24.37%		
24) The average diameter of sand dollars on a certain island is 4.00 centimeters with a standard deviation of 0.60 centimeters. If 36 sand dollars are chosen at random for a collection, find the probability that the average diameter of those sand dollars is more than 3.90 centimeters. Assume that the variable is normally distributed.					
A) 0.341	в) 0.659	C) 0.841	D) 0.780		
 25) The average age of vehicles registered in the United States is 96 months. Assume the population is normally distributed with a standard deviation of 15 months. Find the probability that the mean age of a sample of 36 vehicles is between 98 and 100 months? A) 6.4% B) 15.7% C) 28.8% D) 44.5% 					

Answer Key Testname: REVIEW03

> 1) Yes 2) D 3) 0.91 4) B 5) \$689.00 6) A 7) C 8) A 9) D 10) A 11) C 12) A 13) B 14) 4.24 15) 0.9713 16) True 17) C 18) 0.33 19) 4.75% 20) 0.6443 21) 0.3298 22) 213 23) C 24) C 25) B