Math 1324 - Final Exam Review

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

Provide an appropriate response.

1) Given the frequency distribution below, what is the probability of the hourly wage of a person	1)	
chosen at random from the sample being less than \$4.495?		

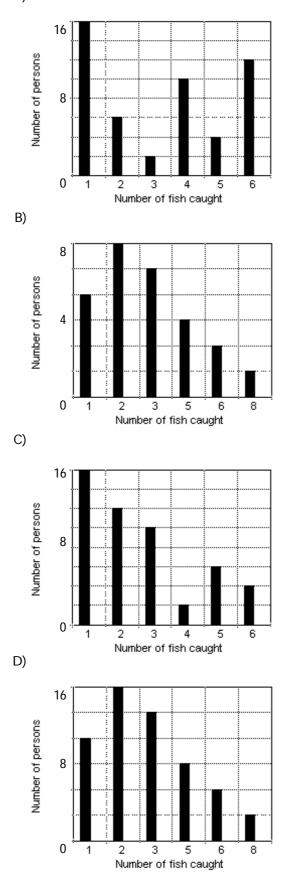
Hourly Wage of Part-time Fast Food Service Workers

	Class Interval	Frequency		
	2.995-3.495	5		
	3.495-3.995	55		
	3.995-4.495	20		
	4.495-4.995	15		
	4.995-5.495	5		
A) 0.75		B) 0.08	C) 0.20	D) 0.80

Construct a bar graph of the given frequency distribution.

Number of	f Number of		
fish caught persons			
1	16		
2	12		
3	10		
4	2		
5	6		
6	4		

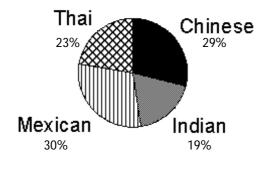
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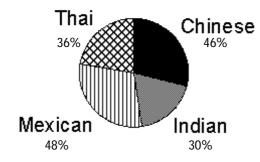
Construct a pie graph, with sectors given in percent, to represent the data in the given table.

3)

Foursite Destaurant	Chula Number of Deenenees
Chinese	Style Number of Responses 46
Indian	30
Mexican	48
Thai	36
A)	
Thai 22.5% Mexican 28.8% B)	Chinese 30% Indian 18.7%
Thai ^{21%} Mexican ^{31%}	Chinese 32% Indian 20%



D)



Find the mean for the data set.

4) A small company em	ploys a supervisor at \$12	200 a week, an inventory man	ager at \$800 a week, 5	4)
stock boys at \$400 a v	week each, and 3 drivers	at \$700 a week each.		
A) \$610	B) \$1017	C) \$1260	D) \$550	

Provide an appropriate response.

Interval	Frequency			
5.5-9.5	3			
9.5-13.5	1			
13.5-17.5	5			
17.5-21.5	7			
21.5-25.5	4			
A) 15.5	B) 19.5	C) 17.1	D) 7.5	
nd the media	n for the data set:			6)
14, 35, 2, 8, 35	5, 14, 8, 6, 2, 2, 2, 2, 8, 2			
A) 14.25	B) 9.47	C) 6	D) 8	

7) Find the median for the following grouped data.

	Interval					
	Interval 2.5-4.5	Frequency 1				
	4.5-6.5	8				
	6.5-8.5	4				
	8.5-10.5	5				
	10.5-10.5	3				
	10.5-12.5	3				
	A) 11.5	B) 9.5		C) 7.60	D) 7.25	
8)	Find the mode for	or the data set				8)
0)		, 11, 9, 7, 2, 2, 2, 2, 9, 2				· · · · · · · · · · · · · · · · · · ·
	A) 9.3	B) 7		C) 11	D) 2	
		,		,		
9)	Here are the price	ces for 8 different MP3	players. Find th	ne standard deviatio	on.	9)
	\$195 \$358 Round to one de	\$201 \$276 \$161 ecimal place.	\$301 \$387	7 \$128		
	A) 238.5	B) 94.1		C) 144.5	D) 329.5	
10)	the mean?		le of ten measu	rements lies within	a 2 standard deviations of	10)
		5 9 2 6				
	3 A) 70%	3 4 5 2 B) 90%		C) 80%	D) 100%	
11)	The test scores of the standard dev		cants are sumr	marized in the frequ	uency table below. Find	11)
	Score St 50 - 59 60 - 69 70 - 79 80 - 89 90 - 99 90 - 99	udents 8 7 12 7 6				
		wer to one decimal place	e.			
	A) 13.4	B) 14.1	C) 12.1	D) 12.7	E) 12.0	
12)	Here are the prie	ces for 8 different MP3	players. Find th	ne range.		12)
	\$195 \$358	\$201 \$276 \$161	\$301 \$387	7 \$128		
	A) 230	B) 195		C) 259	D) 200	
Evaluate	C _{n,x} p ^x q ^{n-x} for t	he given values of n, x	and p.			
13)	n = 6, x = 3, p = -	<u>1</u> 6				13)
	A) 0.0286	B) 0.0154		C) 0.0536	D) 0.0322	

7) _____

	oonse. er has a batting average of 0.4 next four times at bat?	20, what is the probabilit	y that the player will get at	14)
A) 0.333	B) 0.559	C) 0.50	D) 0.042	
-	10 true/false questions. To pa lent guesses on each question		•	15)
A) 0.055	B) 0.117	C) 0.945	D) 0.172	
variable X, the nu	llege survey, 22% of all stude mber of students who work f the binomial distribution.			16)
A) 3.52	B) 2.75	C) 0.22	D) 4.00	
17) A normal distribu curve from the m	ition has mean 200 and stand ean to 224.	ard deviation 50. Find the	area under the normal	17)
A) 0.5000	B) 0.6844	C) 0.1844	D) 0.6808	
	n with mean 120 and standar lean. Express the answer as a		umber of standard deviatior	ns the 18)
A) 3.25	B) 3.02	C) 2.18	D) 2.98	·
	ability by using the normal			stribution.
	e conviction rate for DUI is 85 d, there will be at least 90 cor		ty that of the next 100 DUI	19)
A) 0.0420	B) 0.3962	C) 0.1038	D) 0.8962	
Assume the distribution is percent.	normal. Use the area of the r	ormal curve to answer th	ne question. Round to the ne	earest whole
20) A machine produ	ces screws with an average d is the probability that a screw			20)

Answer Key Testname: 1324-SU17-FINALREVIEW

1) D 2) C 3) C 4) A 5) C 6) C 7) D 8) D 9) B 10) B 11) A 12) C 13) C 13) C 14) B 15) D 16) A 17) C 18) D 19) C

20) B

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