The amount of money spent by families on Black Friday Shopping is said to be normally distributed at \$403 with a standard deviation of \$58

4.	You randomly selected a family determine the probability that you selected a family that spent \$425 or less on Black Friday Shopping		
	What is the associated Z score in this scenario? O 30 Round to TWO decimal places		
	What is the probability statement for this scenario? $P(x = 425) = 0.6480$		
	What is the associated probability with this problem?		
	Sketch the scenario on the provided normal curve		
5.			
783 2010	less OR more than \$450 on Black Friday Shopping		
	What are the associated Z scores in this scenario? $\frac{0.31}{0.31}$ and $\frac{0.81}{0.81}$ Round to TWO decimal places		
	What is the probability statement for this scenario? $P(x \pm 395)$ OR $P(x \ge u50) = 0.5873$		
	0,5×73 0,5×736 385-403		
58B	1 / 5.2.3.9.2.4 (/70/0)		
	1-0.5873=0.4127 0.3783		
	Sketch the scenario on the provided normal curve		
6. You randomly selected a family determine the probability that you selected a family that spent between and \$525 on Black Friday Shopping			
	What are the associated Z scores in this scenario? Or 81 and 210 Round to TWO decimal places		
	What is the probability statement for this scenario? $P(450 \pm X \pm 525) = 0.1911$		
	What is the associated probability with this problem?		
0,7910+0,0179 6,8089			
\ -	0.8089 =0,1911		
	Sketch the scenario on the provided normal curve		
	D.2090		

The average amount of snowfall in December in Peoria is 7.1 inches. If the amount of snowfall in Peoria in December is said to be normally distributed and has a standard deviation of 1.75 inches then answer the following questions:

•
7. Determine the randomly selected a year in which the amount of snowfall in December is in the top 85% of all Decembers over the history of collecting this type of data
What is the associated Z score in this scenario? Round to TWO decimal places
What is the probability statement for this scenario? $P(x/2+) = 0.8500$
mean $+5D(2) = 7.1 + 1.75(-1.04)$ What is the associated amount of snowfall with this problem?
100K 40 0.1500 (6,1492)
2=-1.04
Sketch the scenario on the provided normal curve
8. According to the given information, find the missing amount of December snowfall if you know that 58% of the of the years selected are between 5.25 inches and T inches
What are the associated Z scores in this scenario? and Round to TWO decimal places
What is the probability statement for this scenario? $P(5.25 \le X \le T) = 0.5800$
What is the missing associated amount of snowfall in December in Peoria with this problem? 8.15
5.25-71-1006
100 KUR 0.7246
(0.7257)
60.6
Sketch the scenario on the provided normal curve
0.724b = 011446+0.58

The average cost of car insurance for a person who is 18 years old is \$6456.	If the cost of this car insurance for 18 year olds is said
to be normally distributed and has a standard deviation of \$175 then answer	er the following questions:

9. According to the given information, find the missing cost of car insurance if you know that 15% of the these 18 year olds are paying between B and \$6350 What are the associated Z scores in this scenario? _____ and ____ Round to TWO decimal places What is the probability statement for this scenario? $P(B \le x \le 6359) = 0$, (800) What is the missing associated cost with this problem? (round to TWO decimal places) mean+SD(Z) = 6456+175(-1.17) 100K4P 0112091 (0,1210) 4-117 0.2709-0115 = 011209 1+ (0,15+0.7291) = [0,1209 Sketch the scenario on the provided normal curve 0.2709 10. According to the given information, find the missing cost of car insurance if you know that 75% of the these 18 year olds are paying less than \$6200 OR more than W dollars What are the associated Z scores in this scenario? ______ and _____ Round to TWO decimal places What is the probability statement for this scenario? $P(x \pm 2\omega) \circ P(x \geq \omega) =$ What is the missing associated cost with this problem? (round to TWO decimal places) mean + 50(2) 6456+175 (-0.46) 100k 4P 0:3221 (0:3228) 0.6779 Ly -0,46 Sketch the scenario on the provided normal curve 620 W 6456

0.3241 = 0.25+0.0721E

Extra Credit: DO NOT ATTEMPT UNTIL ALL OTHER PROBLEMS ARE COMPLETED NO WORK = NO CREDIT

If the average monthly salary of a college graduate is said to be normally distributed and is \$2750 has a standard deviation of \$250 and the average monthly student loan payment is said to be normally distributed at \$806.74 with a standard deviation of \$82.50, then answer the following questions.

If a person is earning a monthly salary in the bottom 15% of all monthly salaries, then what percent of people T have a loan payment higher that that same person, if the person in question has a MAXIMUM TAKE HOME PAY after paying their student loan that is \$1900 (assume the pay is NET PAY and NOT GROSS PAY, that is taxes have been paid already).

Sketch the scenario related average monthly pay on the provided normal curve				
100 kg 0,1500 2490-1900				
0,1500 Pay -1900 = 5				
What is the associated Z score in this scenario? Round to TWO decimal places				
What is the probability statement for this scenario? $P(x \le 13) = 0.1500$ What is the associated amount of monthly pay with this problem? $P(x \le 13) = 0.1500$				
What is the associated amount of monthly pay with this problem?				
megn+50(2) = 2750 + 250(-1.04)				
Sketch the scenario related average monthly student loan payment on the provided normal curve				
590-806-74 = -2.63 82.50 = -2.63				
SM 80674 -7.63				
What is the associated Z score in this scenario? Round to TWO decimal places				
What is the probability statement for this scenario? $P(x^2 - 509) = 0.9957$				
What is the associated amount of monthly student loan payment with this problem? 2490 – 1900 Round to TWO DECIMAL PLACES				
who have a				
The percentage of people, T, that have a student loan higher than person whose take home pay of \$1900 after paying their student loan payment (before any other expenses are paid) is				

JUSTIFY THE ANSWER YOU GAVE or NO extra credit of any type will be awarded