1- (0:0618+0.2810)= 1-03428

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 \$451 or less on Black Friday Shopping
		What is the associated Z score in this scenario? Round to TWO decimal places
		What is the probability statement for this scenario? $\frac{7(x \le 45)}{5(5)} = 6.7967$
		What is the associated probability with this problem? 0.7967 0179.67%
		Sketch the scenario on the provided normal curve 403 451
	5.	You randomly selected a family determine the probability that you selected a family that spent either \$305 or less OR more than \$490 on Black Friday Shopping
		What are the associated Z scores in this scenario? and Round to TWO decimal places
		What is the probability statement for this scenario? $P(x \le 305) \text{ or } P(x \ge 405) = 0.11 \ge 3$ What is the associated probability with this problem? $P(x \le 305) \text{ or } P(x \ge 405) = 0.11 \ge 3$
		305-403 58 0-0455 0-88-77 490-4C3
		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 \$460 and \$565 on Black Friday Shopping
		What are the associated Z scores in this scenario? and Round to TWO decimal places
		What is the probability statement for this scenario? $P(460 \le x \le 568) = 0.1609$
		What is the associated probability with this problem? $\frac{0(1609 \text{ or } 1609\% \text{ s})}{130}$
160	58	0.8365 0.1609 = 2.79
		Sketch the scenario on the provided normal curve
0		974-0-8365 0-9974
-	0	1,0026 40-8365)

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 64% of all Decembers over the history of collecting this type of data
	What is the associated Z score in this scenario? —O 36 Round to TWO decimal places
	What is the probability statement for this scenario? $P(X \ge B) = 0.6400$
	What is the associated amount of snowfall with this problem?
	(00 Kup 0.3600 (0.3594)
	0.760
	Sketch the scenario on the provided normal curve B 71
8.	According to the given information, find the missing amount of December snowfall if you know that 56% of the of the years selected are between 5.05 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? $P(S-0S \le x \le t) = G-S600$
	What is the missing associated amount of snowfall in December in Peoria with this problem? $\frac{79225}{1300}$
	100K 4P 0:6810 (0:6808) 5.05-711-117
	40.47
	0.5600
	Sketch the scenario on the provided normal curve
	5-05 7.1

0,0800

8.

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 the following questions:

9. According to the given information, find the missing cost of car insurance if you know that 21% of the these 18 year olds are paying between B and \$6250 6350 What are the associated Z scores in this scenario? ______ and _____ Round to TWO decimal places What is the probability statement for this scenario? $P(3 \le x \le 6350) = 0.2100$ $P(3 \le x \le 6350) = 0.2100$ What is the missing associated cost with this problem? $P(3 \le x \le 6350) = 0.2100$ What is the missing associated cost with this problem? $P(3 \le x \le 6350) = 0.2100$ 6350-6456 = -0.61 lookup 0.0609 (0.0606) -> -1.55 0.2709-0.2100 Sketch the scenario on the provided normal curve 0,2709 B 6350 6456 10. According to the given information, find the missing cost of car insurance if you know that 55% of the these 18 year olds are paying less than \$6000 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 = 6000) OR P(xzw) = 0.5500What is the probability statement of this scenario: Megn+SD(Z) = 6456+175(-0.00) = 6436x75What is the missing associated cost with this problem? ______ (round to TWO decimal places) 175 = -2.161 look up 0.4545 (0.4562) 0 05500-0.0045 = 0.5455 0,4500

6000 W 6456

Sketch the scenario on the provided normal curve

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 13% 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
0.1300 (00Kup 0.1300 (00Kup 0.1300 (00Kup 0.1300 (00Kup 0.1300)
What is the associated Z score in this scenario? Round to TWO decimal places What is the probability statement for this scenario? $P(X \in B) = D(1300)$ What is the associated amount of monthly pay with this problem? $2750 + 250(-1.13) = 246$
What is the associated amount of monthly pay with this problem? $\frac{7}{2}$
Sketch the scenario related average monthly student loan payment on the provided normal curve
0.0019 0.9981 567.50 -806.74 2467.50-1900
SG-90074 What is the associated Z score in this scenario? Z.89 Round to TWO decimal places
What is the probability statement for this scenario? $(XZ567S)=0.998$
What is the associated amount of monthly student loan payment with this problem? Solution Round to TWO DECIMAL PLACES
The percentage of people, T, that have a student loan higher than the person who has take-home pay of \$1900 after paying their student loan payment (before any other expenses are paid) is $998860000000000000000000000000000000000$

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

MR HICKMAN IS ASKING YOU IF YOU CAN READ AND INTERPRET THESE PROBLEMS WELL ENOUGH TO PERFORM THE MATHEMATICS INVOLVED.

DO NOT ASK HIM TO READ

AND INTERPRET THE QUESTIONS
FOR YOU, BECAUSE IT IS
SPECIFICALLY THE MAJOR LEARNING

TARGET HE IS ASSESSING YOU

ON! GOOD LUCK!