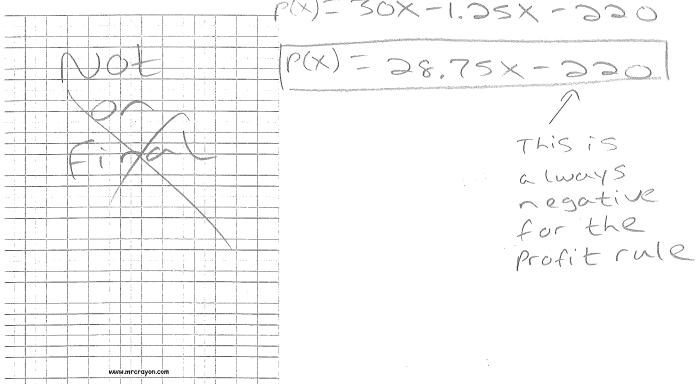
Senior Math Final Exam Mini Review #1  Name: Very Dorlo (5 Hr
Use the following scenario for question #1-5.  You want to start your own hedge trimming company. You investigate what you need and find out that you need to purchase a rake for \$25, a power hedger for \$105 and a blower for \$90. You also determine that it will cost an additional \$1.25 for gas for each job. You decide to charge \$30 per job.
Rule = M= per b= crists
1. What is the cost rule:
(X)=1.25X+220
2. What is the revenue rule?
$\int \left  f(x) - 30x \right $
3. What is the profit rule?
P(X) = r(X) - (c(X)) = 30X - (1.25X + 220)
4. Graph cost, revenue, and profit below.
P(X)=30X-1.25X-220
P(X) = 28,75X - 220



5. How many jobs would you have to complete to break even and start making money?

$$\Gamma(x)=c(x)$$
 or

what

220

X=7.65

Use the following scenario for question #6-10.

Scenario: A hot dog vender has studied his cost "C(x)" and revenue "R(x)" across the course of the month. The cost and revenue depend upon the number of hot dogs he sells. The following algebraic rules represent the two relationships where x represents the number of hot dogs made/sold, and the cost and revenue measured in dollars.

$$C(x) = 0.50x + 800$$

$$R(x) = 2.25x$$

6. List what you know about the cost based upon the given cost equation.

A It costs \$0.50 to make every hot dog.

7. List what you know about the revenue based upon the given revenue equation.

A They charge/make \$2.05 for every hot dog sold

8. What would be his profit rule?

$$P(X) = \Gamma(X) - (C(X)) = 2.25X - (0.50X + 800)$$
  
= 2.25X - 0.50X - 800

9. How many hot dogs would he have sell to start making a profit?  $P(x) = 1.75 \times -800$ 

10. What would happen to the break-even point if he decided to charge \$2.00 per hot dog?  $\langle$ 

Since they would be charging/making less per hot dog, they would have to sell more hot dogs to break-even

	Senior Math Final Exam Mini Review #2	Name: Key 2014-15 Hr						
	For question #1-4, use the following scenario. The amount of time a group of people spend watching tv each night is given (hours).							
	1.6, 0.2, 3.7, 4.2, 3.6, 1.9, 2.0, 0.9, 3.3, 5.9, 4.1, 1.0, 0.5, 3.2, 1.2							
	<ol> <li>Identify the <u>mean</u> of the data set</li> <li>Identify the <u>median</u> of the data set</li> </ol>	STAT-> 1: Edit > Load LD						
	(med = 2)							
	3. Identify the <b>mode</b> of the data set	order data set 1st:						
what	None	STAT-) 23 Sort A(L,))						
most	4. Identify the <u>range</u> of the data se	STAT DIEdit						
	Range= 5,0	1-0,2 = 574 Final						
max-mi	Use the box-and-whisker plot to answer question #5-7. Time Spent Memorizing History Facts vs. History Test Scores							
	Test Scores  65 70 75 80 85 90 95 100  5. What percent of students scored	petween 70% and 100% on the test?						
	25+25+25							
	6. What is the 75 <sup>th</sup> percentile?	ercentile-Reports the 1. of data						
	[90]	below.						
	7. What is the IQR (interquartile ran $\square \square \square$							

<u>Sampling Methods:</u> Random Sample, Convenience Sample, Stratified Random Sample, Cluster Sample, and Systematic Sample.

*Use the following scenario to answer question #8-11.*The Mayor of Romeo wants to find out what Romeo Residents think about the parks in the city.

	Determine what type of sampling method he is using in each example. Explain why after.
	8. He surveys people that visit his office.  Resumpling method listed on Your
7	CONVENIENCE listed on Your formula sheet
	9. He calls every 30 <sup>th</sup> citizen off a list of Romeo Residents.
	SYSE CONTRACTOR CONTRA
	10. He randomly surveys 100 male and 100 female residents.
5	tratified you have subgroups
	11. He uses his computer to randomly generate a list of citizens to survey.  [Simple Random Sample (SRS)]
	For question #12-13, use the scenario given to answer the questions. You are trying to decide if younger people buy more candy than older people.
	Determine whether the given study is an observational or experimental study.
	12. You stand near the cash register in the convenience store and record the candy purchases of the customers along with their age status.
	a. Observational b. Experimental Observing
	13. You set up a candy stand and record the age status of your customers when they buy candy from you.
	a. Observational  b. Experimental  Treatement/
	treatement/
	running ca

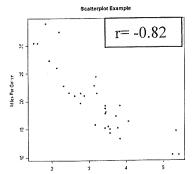
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of wins	11	5	13	7	12	15	10	16	12	9	2	9	11	5	
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5. Is	your p	redictio	n in qu	estion #		example									
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This is in between the minimum (6) and

maximum (18) given on the table so this:

is linterpolation

Strong (Negative)	
e the strength and direction for the given scatterplot.	



6. Determin

Use the correlation Coefficient Chart on Your formula skeet, r=-0.82 is between -0.5 and -1 so the strength is strong.

Positive

7. For the scenario given below would you expect the variables to have a negative, positive, or no correlation?

1	
b) Waist Size vs. IQ	

a) Number of strikes vs. number of hour practicing bowling

. IQ ? NO correlation

c) # of kids in family vs. amount of sleep for the parents

\text{\text{Negative}}

d) Cash in wallet vs. number of hours working

Positive

e) # of playoff wins for the Tigers vs. # of home playoff games

If both 90 up-> Positive

If one goes up and one goes down

Negative

If one goes up and second is not impacted -> NO correlation

· · · · · · · · · · · · · · · · · · ·	Senior Math Final Exam Mini Review #4	Name: _	Key	2014-	<u> </u>	Hr	
and the state of t	For question #1-5, use the following	g scenaric	),				
Transmitte de la constitución de l	The test scores for a recent Senior the standard deviation is 5. Create question #26 & 27.	Math Quiz the norma	are approxi	mately norma this data belo	nl. The me w to help	ean is 82% and answer	
	0.51.10.35 1.7. 3.4 3.4	13.5 2:	35 0.15%				
	1. What percent of the students sco	red above	e a 77%?				
	34+34+13.5+2	.35+1	0.15 =	841/	***************************************		
	34+50	>	The state of the s	ş			i
	2. Of a group of 35 Senior Math stu 82%?	dents, ho	w many of th	hem scored b	etween a 7	72% and a	
,	1=13.5134 m	he H	000-	8.47	5.3		
	2. Of a group of 35 Senior Math stu 82%?  / = \langle 3 \langle 5 \langle 7		Managam	16,60	> 5		
	3. Using your z-score formula and z below in 88% on the test. 合 しら	. cabic, ac	cerring wind	it percent or a	ituaciits w	odia score	4 5 600
Z :	(88-83)	P(	X < 88	3) [8	8.40	71/-	
	4. Using your z-score formula and z above an 84% on the test. 念 しらの	-table, del モトC	termine wha	it percent of s	tudents w	ould score	sheet.
てこ	(84-83) = 0.4	P(X		THE PROPERTY OF THE PROPERTY O	year the standard medical transportation of the second	MANAGEMENT AND	
	5. Using your z-score formula and z between a 74% and a 83%? $\stackrel{\frown}{R}$ $\stackrel{\smile}{\nu}$	-table, del se th	termine wha	percent of s	tudents w	ould score in	nla shpet
2(	74-82) - 1.6 P	(74	CXC8	3)=B	j.S	small prob	
Com to the contract of the con	(83-82) = 0,0			and the second of the second o		45 /. L	:

6. You are examining your last two tests. On the Test A you scored a 81%. The class mean for Test A was an 75% and the standard deviation was a 4.91. On Test B you scored a 76%. The class mean for this quiz was a 71% and the standard deviation was a 3.28. On which quiz did you do **relatively** better? Why?

$$\frac{2}{7est}A = \frac{(81-7s)}{4.91} = 1.52$$

Test B because you scored more standard deviations above the mean.