What you need to know & be able to do	Things to remember	Problem	Problem			
Identify the measures of central tendency.	Mean Median Mode	1/36,39,58,42,106,39,48,45 Mean (X):51.63 Median:43.5 Mode:39	2. 50, 55, 60, 58, 62, 57, 68, 51, 63 Hean(X): 58.22 Median: 58 Mode: none			
Identify the measures of spread.	 Q1 Q3 IQR Minimum Maximum Range MAD 	3. (Use the same #s from 1) Q1: 39 Q3: 53 IQR: 53-39=14 Min: 36 Max: 106 =70	4. (Use the same #s from 2) Q1:53 Q3:62.5 IQR:62.5-53=9.5 7.10 Min:50 Max:68 68-50 =18			
Construct a box- and-whisker plot.	 First dot: Min First Line: Q1 Middle Line: Median Third Line: Q3 Last dot: Max Outlier: Q1 – 1.5(IQR) Q3 + 1.5(IQR) 	7. Are there any outliers? Show 106 is a 60+1; 8. Which data set had the hid at a set has the gr 9. Which data set has the gr 10. Which data set had the in Act a Set	of statistic. Med. Q3 Max L 43.5 53 106 3 58 62.5 68 plots. Remember to label your 106 your work! Yes! Q3+1.51QR 53+1.5(14)= igher median? reater IQR?			
		set 18 43.5 - 10 12. How would you describe to Symmetry				

H Algebra I		nit 6: Describing I Complete the table		wer the follo	owing ques	tions.	
Construct a probability table.	 Joint Probability: Individual Cell/Table Total Marginal Probability: Row or Column Total/ Table Total Conditional Probability: Individual Cell/Row or Column Total 	F	ootball	Basketball	Soccer	total	Ī
		Males	48	35	17	100	
		Females	22	38	40	100	
		Total :	70	73	57	200	
		14. What is the prol conditional, mo	oability for a signal, of the signal, of the signal in the	that someor or joint freques of the sound of	ne likes bas ency? Narg (vhat is the p nal, or joint	naQ probability th	
		Y Price X # of Sandwiches	4.00 68	5.50 3 55 8		5.50 7.00 64 28	
find the line of best it.	 y = ax + b r = correlation coefficient (if close to 0 bad fit; if close to 1 or -1 good fit.) 	16. Determine the list shis model as Yes, Ve A. How many she 2.00 each 2.00 7.25 B. How many she 5.00 each 5.00 = 4.25 = C. What would you bought	good fit Sandwice sandwice andwice sandwice andwice	the date the date the swould yes interpolation to the swould yes the swould yes interpolation to the swould yes the swould yet	positive ou need to you we will lead to ou need to you we will lead to you will lead to you need to you at lead	by for ther polation? X = 10 Would necessary Suid necessary	1000 13,0 1,000 1,

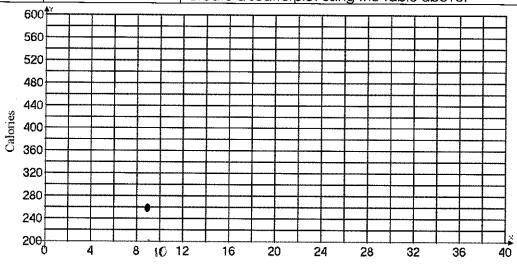
-.07(10) + 9.25 = \$8.55per sunduch

H Algebra I

Unit 6: Describing Data

Sandwich	Tetal Fat	Total		
CAUCK!! ICH	(g)	Culories		
Hamburger	9	260		
Cheeseburger	13	320		
Quarter Pounder	21	420		
Quarter Pounder with Cheese	30	530		
Big Mac	31	560		
Arch Sandwich Special	31	550		
Arch Special with Bacon	34	590		
Crispy Chicken	25	500		
Fish Fillet	28	560		
Grilled Chicken	20	440		
Grilled Chicken Light	5	300		

Create a scatterplot using the table above



Grams of Fat a. Calculate the correlation coefficient. What does it mean in terms of the data?

r = .975 there is a very strong positive.

Correlation between fat and calones

b. Calculate the line of best fit. Describe the meaning of the parameter

 $\alpha = 11.73$ means

 $y = 11.73 \times + 193.85$

y=11.73 x +193.85

b=193.85 - y-int, fn. 0 fat it still has 193.85 calones

c. How-many calories would a sandwich have if it only had 3g of fat? Is this interpolation or

y = 11.73(3) + 193.85 = 229.04 calonies

d. How many calories would a sandwich have if it has 23g of fat? Is this interpolation of extrapolation?

Y=11.73(23) + 193.85 = 463.64 calones

é. How many grams of fat would a sandwich have if it has 750 calories?

750 = 11.73x +193.85 556.15 = 11.73x

X=47.4