Answer results sheet   Name _____

	therms	costper	gascost	total
January	57	1.02209	58.26	64.76
February	57	1.08349	61.76	68.26
March	83	1.0635	88.27	94.77
April	73	1.08065	78.89	85.39
May	43	1.05416	45.33	51.83
June	25	0.97371	24.34	30.84
July	9	0.98722	8.88	15.39
August	8	0.97416	7.79	14.29
September	8	0.89541	7.16	13.66
October	7	0.81452	5.70	12.21
November	8	0.78916	6.31	12.81
December	17	0.8646	14.70	21.20

1) After completing step # 1, fill in the above chart. Round your answers to two decimal places.

2) After completing step # 2, sketch your scatterplot, note the window you used.
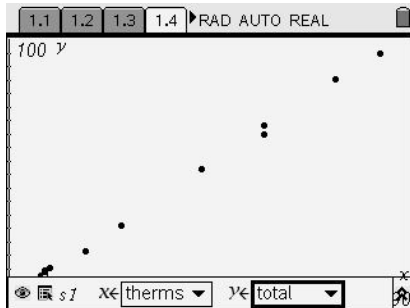
X minimum _____0____

X maximum _____90__

y minimum _____0____

y maximum _____100_____

3) After you complete Step #3,

Equation: y=1.09258 *x +4.48597

What does x represent? therms

What is the value of the slope? 1.09258

What does the slope represent in this situation? Cost per therm

What is the y intercept? 4.48597

What does the y intercept represent in this situation? basic cost

Does the slope your equation gives you match any of the cost per therm given in the original data? Why? No. Because the cost per therm changes each month.

Does the y intercept your equation gives you match the basic cost? Why? No. Because the cost per therm changed each month, it did not let the basic cost of $6.50 stay constant like it should have.

4) As you complete step # 4, fill in the values:

sum(therms) = 395

mean(therms) = 32.9167 (decimal value)

sum(costper) = 11.6027

mean(costper) = .966889

sum(gascost) = 407.402

mean(gascost) = 33.9502

sum(total) = 485.402

mean(total) = 40.4502

Many utility companies offer the option of paying a set amount each month rather than paying the varying cost each month. What amount should the company charge for the set amount? Why?
Student should use the mean(total) ... so they should charge $40.45 or maybe $40.46?