Student results sheet Name _____

	therms	costper	gascost	total
January	57	1.02209		
February	57	1.08349		
March	83	1.0635		
April	73	1.08065		
May	43	1.05416		
June	25	0.97371		
July	9	0.98722		
August	8	0.97416		
September	8	0.89541		
October	7	0.81452		
November	8	0.78916		
December	17	0.8646		

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 _____

X maximum _____

y minimum _____

y maximum _____

3) After you complete Step #3,

Equation: _____

What is x? _____

What is the slope? _____

What does the slope represent in this situation?

What is the y intercept? _____

What does the y intercept represent in this situation?

Does the slope your equation gives you match any of the cost per therm given in the original data? Why?

Does the y intercept your equation gives you match the basic cost? Why?

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

sum(therms) = _____

mean(therms) = _____ (decimal value)

sum(costper) = _____

mean(costper) = _____(decimal value)

sum(gascost) = _____

mean(gascost) = _____(decimal value)

sum(total) = _____

mean(total) = _____(decimal value)

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?