As with any statistical output, you get A LOT. Some of it is really important, some isn't. Below is an annotated output that describes what things you need to pay attention to in you logistic regression output

Logistic Regression

Case Processing Summary						
Unweighted Cases	a	N	Percent			
Selected Cases Included in Analysis		109	99.1			
	Missing Cases	1	.9			
	Total	110	100.0			
	Unselected Cases	0	.0			
	Total	110	100.0			

a. If weight is in effect, see classification table for the total number of cases.

Dependent Variable

Encoding						
Original						
Value	Internal Value					
0	(0				
1		1				

Block 0: Beginning Block

Classification Table ^{a,b}						
			Predicted			
			ticket			
					Percentage	
Observed		0	1	Correct		
Step 0	ticket	0	60	0	100.0	
		1	49	0	.0	
		Overall Percentage			55.0	

a. Constant is included in the model.

b. The cut value is .500

Variables in the Equation

This box tells you how well SPSS can predict the outcome of the regression without any additional information. It based on the distribution of the dependent variable.

Variables not in the Equation

			Score	df	Sig.
Step 0	Variables	minority	12.834	1	.000
		female	3.328	1	.068
		mphpct	13.242	1	.000
		Overall Statistics	24.462	3	.000

Block 1: Method = Enter

Chi-square

6.849

Step

Omnibus Tests of Model Coefficients						
Chi-square df Sig.						
Step 1	Step	27.514	3	.000		
	Block	27.514	3	.000		
	Model	27.514	3	.000		

		Cox & Snell R	Nagelkerke R
Step	-2 Log likelihood	Square	Square
1	122.481 ^a	.223	.298

a. Estimation terminated at iteration number 4 because parameter estimates changed by less than .001.

df

8

Because logistic regression is not based on the formula for a line (like linear regression is), there's not a similar calculation to R square in linear regression. However, some super smarties came up with some ways to estimate an Rsquare-like measure that's why they're called "pseudo" r square. You will never get one that is very high. So don't freak out.

This is one of those upside down measures. You want the sig here to be >05. That means that the data fits your model.

	Classification Table ^a					
				Predicte	d	
				ticket		
					Percentage	
	Observed		0	1	Correct	
Step 1	ticket 0		49	11	81.7	

This box tells you how well SPSS can predict the outcome with the added information of the independent variables. See -

Hosmer and Lemeshow Test

.553

Sig.

Two columns are important in this table. This column is what's known as the "odds multiplier." It basically tells you how strong your variable is. This one tells you that minorities have 6.8 times the likelihood of getting a ticket as non-minorities. Females have about half the likelihood as males. The percent miles per hour over, slightly increases the likelihood that someone will be ticketed. Continuous variables are harder to interpret.

Variables in the Equation							\sim
		В	S.E.	Wald	df	Sig.	Exp(B)
Step 1	minority	1.921	.688	7.793	1	.005	6.825
	female	824	.453	3.304	1	.069	.439
	mphpct	.086	.028	9.179	1	.002	1.089
	Constant	-3.524	1.133	9.681	1	.002	.029

This column tells you whether the next column Exp(B) means anything. It needs to be <.05 - otherwise, what you get in the next column might just happen by chance. Anything that is not significant here should be removed.