LORENZ CURVE

County	X	Y	X/Y
a	5	10	
b	9	10	
c	6	5	
d	8	5	
e	8	3	
f	4	3	
g	5	6	
h	1	5	
I	2	2	
j	1	3	
k	5	2	
l	4	2	
m	9	2	
n	7	1	
o	4	1	
p	5	8	
q	5	3	
r	4	2	
s	4	7	
t	3	9	
u	1	10	
v	0	1	
Total	**100**	**100**	

County Rank	Percent X	Percent Y	C%X	C%Y

Step 1. Using raw data, Calculate Ratio of X to Y

Step 2. Rank Counties in ascending order

Step 3. Calculate the percentage of X and Y located in each county based on the observed total of all observations in the study (for example, Σa-v above)

Step 4. Calculate Cumulative Percentages for X & Y based on the total of all study observations. Upon completing this process, the total should be 100%

Step 5. Plot cumulative percentages along X or Y axis

Example

County	X	Y	X/Y
A	25	50	0.5
B	10	15	0.66
C	15	25	0.6
D	50	10	5

County Rank	Percent X	Percent Y	C%X	C%Y
A	0.25	0.5	25	50
C	0.15	0.25	40	75
B	0.1	0.15	50	90
D	0.5	0.1	100	100

LOCATION QUOTIENT

	Total Manufacturing Employees (X)	Total Employees	Percent of Manufacturing Employment
State	25	35	0.71
County A	4	11	0.36
County B	8	10	0.80
County C	7	14	0.50

	LQ (X/.71)	
County A	0.5	Half the concentration relative to the state
County B	1.26	Concentration higher than state
County C	0.7	Concentration lower than state

Step 1. Calculate Percent--This is a measure of concentraion

Step 2. Calculate the ratio of 'local' concentrations to 'global' concentrations