

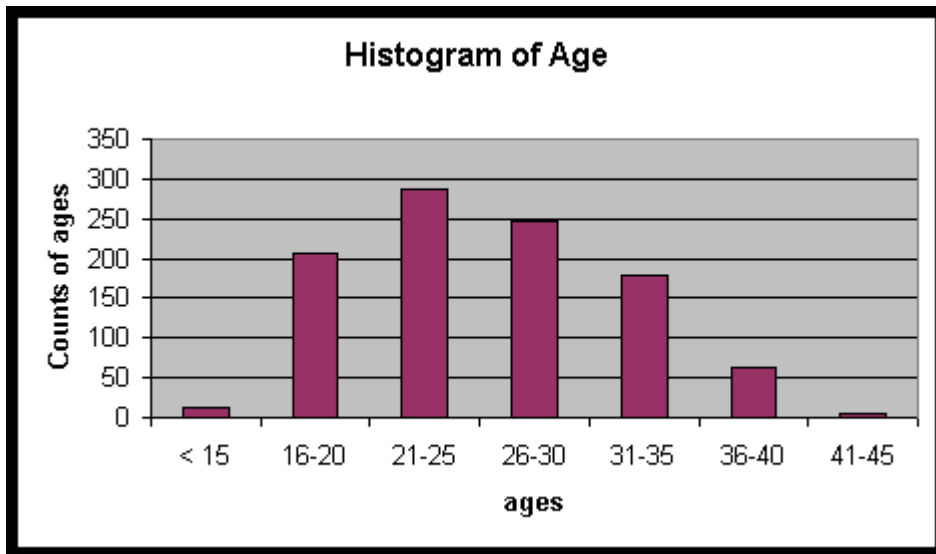
Project I. THE GREATEST GROUP EVER

The following data analysis report summarizes the information from the data file **ncbirth1450.xls**. This data set contains birth record information from the North Carolina State Center for Health and Environmental Statistics. The data set is a random sample of 1450 births. Birth weight is important because low birth weight has been linked to slower mental and physical development.

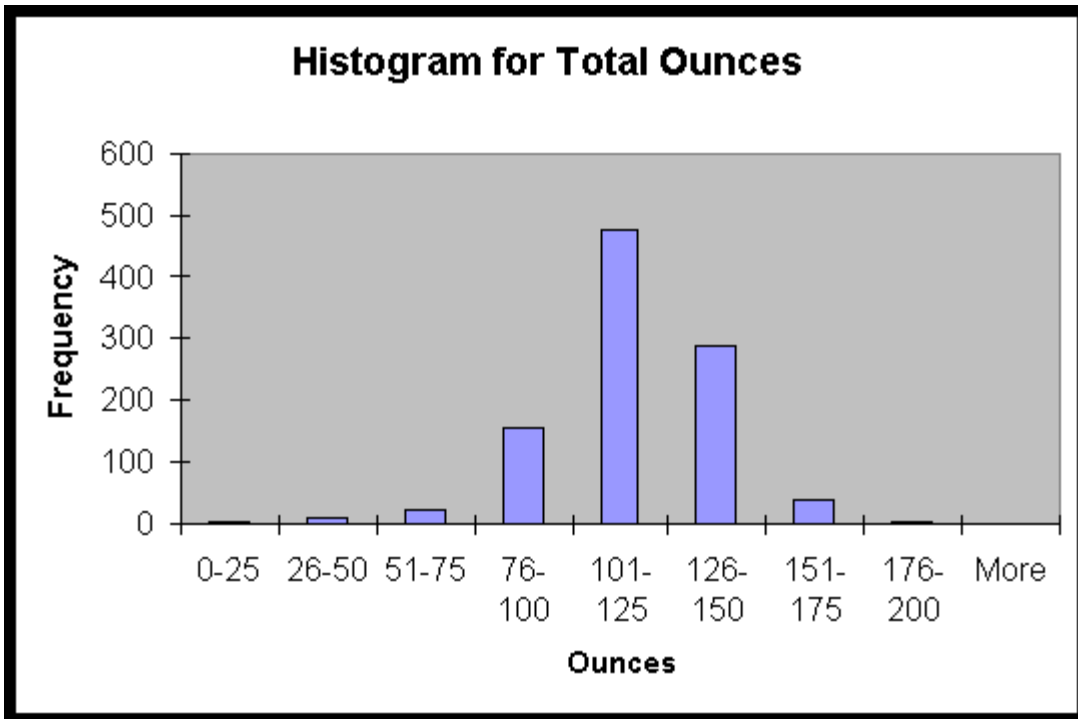
The continuous variables in this study are **age** and **gestation**. A five number summary appears below:

Variable	Mean	Median	SD	Min	Max
age (years)	25.89	25	6.06	13	42
totounc (ounces)	116.13	118	21.57	12	194

Below are the histograms for these variables:



This variable appears to be right skewed so the proper measure of center is the median.



This variable appears slightly left skewed. Since the skewness is only slight the median or mean is a good measure of center.

The discrete variables are **sex**, **educ**, **bwtgroup**, **marital**, **plural**, **smoke**, **drankalc**, and **low**. Frequency Tables appear for these below:

SEX	Total	Percent
Male 1	496	49.64
Female 2	503	50.35
Grand Total	999	

EDUC	Total	Percent
0	2	0.20
1	1	0.10
2	1	0.10
3	2	0.20
5	3	0.30
6	10	1.00
7	2	0.20
8	29	2.90
9	50	5.01

10	63	6.31
11	63	6.31
12	326	32.63
13	82	8.21
14	110	11.01
15	34	3.40
16	157	15.72
17	62	6.21
Missing	2	0.2002
Grand Total	999	

BWTGROUP (grams)	Total	Percent
<500 0	3	0.30
501-1000 1	4	0.40
1001-1500 2	7	0.70
1501-2000 3	14	1.40
2001-2500 4	58	5.81
2501-3000 5	178	17.82
3001-3500 6	357	35.74
3501-4000 7	286	28.63
4001-4500 8	80	8.10
> 4501 9	11	1.10
Missing	1	0.10
Grand Total	999	

MARITAL	Total	Percent
Married 1	671	67.17
Unmarried 2	326	32.63
Missing	2	0.20
Grand Total	999	

PLURAL	Total	Percent
Single 1	975	97.5976
Twins 2	23	2.302302
Triplets 3	1	0.1001
Grand Total	999	

LOW	Total	Percent
0	912	91.29
1	86	8.61
Missing	1	0.10
Grand Total	999	

SMOKE	Total	
Non-smoker	824	82.48
Smoker	173	17.32
Missing	2	0.20
Grand Total	999	

This data set held many surprises for me. I expected the percent of twins to be higher. I expected it to be as high as 10%. I was not expecting the percent of triplets to be that low either. I would like to know if the average birth weight is higher for smokers than non-smokers. I would like to know the same thing about drinkers and non-drinkers. I wish I knew if a mother was taking illicit drugs.