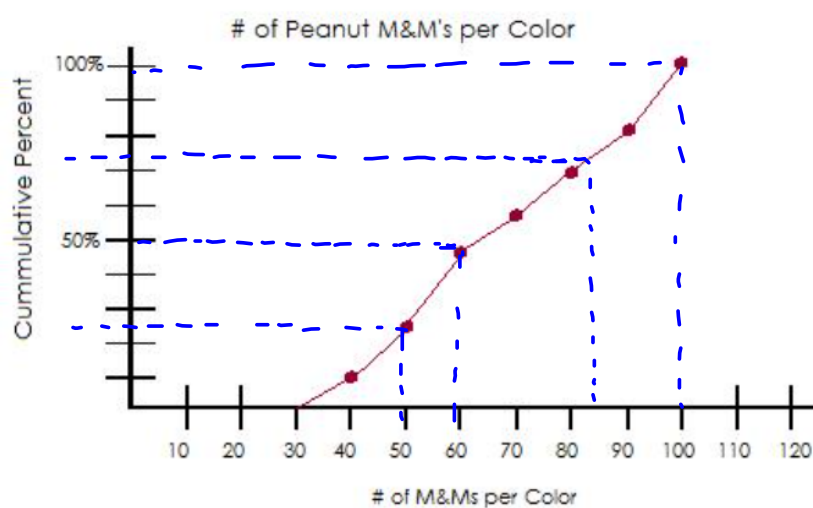


# **Cumulative Percentage Graphs and Frequency Table Calculations**

## Graphs of Cumulative Percentages



0% Min: 31

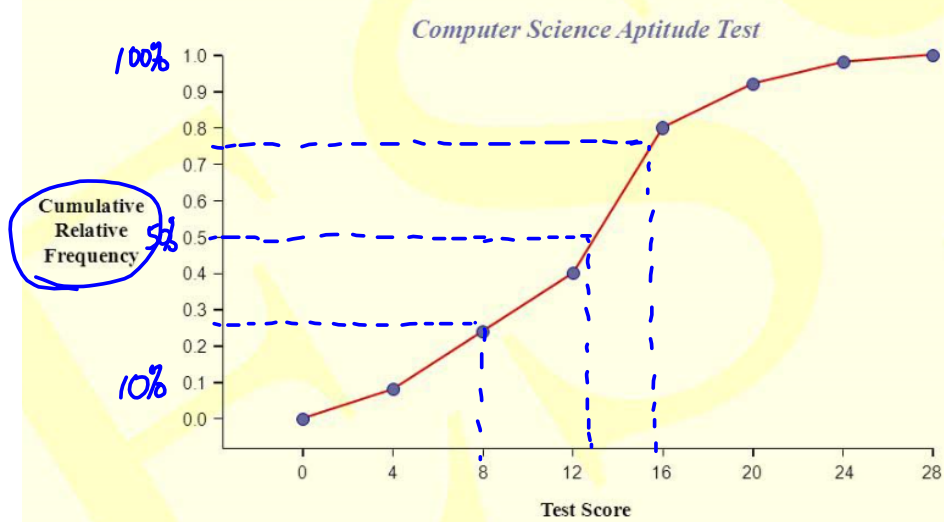
25% Q1: 50

50% Median: 60

75% Q3: 85

100% Max: 100

✓ **Example:** The graph below is an ogive using cumulative relative frequencies for the computer science aptitude data:



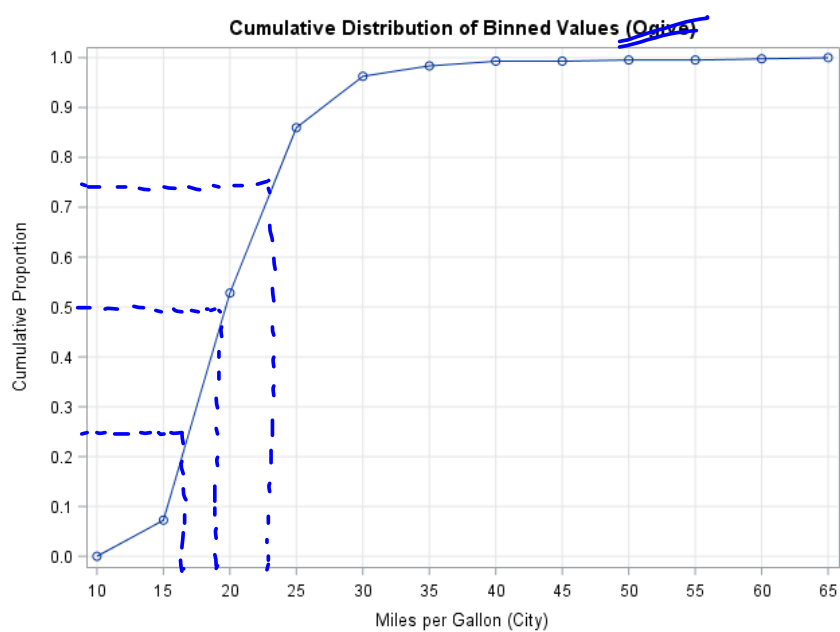
Min: 0

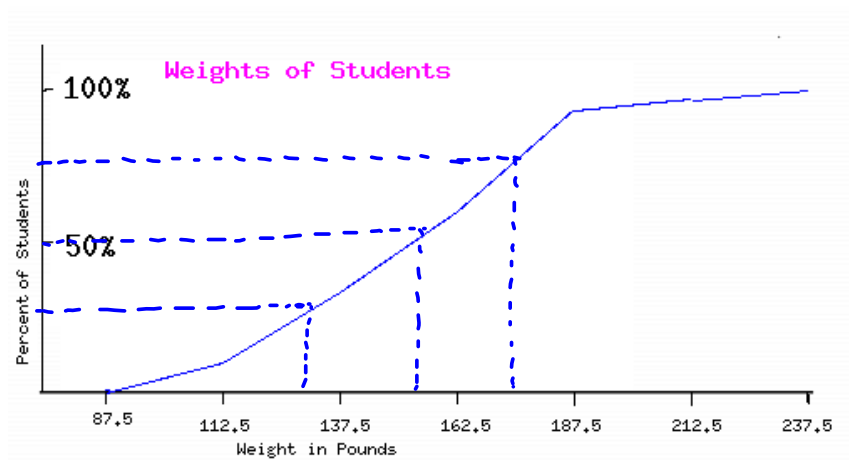
Q1: 8

Median: 13

Q3: 16

Max: 28

Min: 10Q1: 17Median: 19Q3: 23Max: 65

Min: 87.5Q1: 130Median: 152Q3: 173Max: 237.5

## Frequency Tables in Calculator

Size	Tally marks	Frequency
4		2
5	<del>    </del>	5
6		4
7		4
8	<del>    </del>	6
9	<del>    </del>	7
total		28

Mean:  $\bar{x}$  7

SD:  $s_x$  1.68

Min: 4

Q1: 5.5

Median: 7

Q3: 8.5

Max: 9

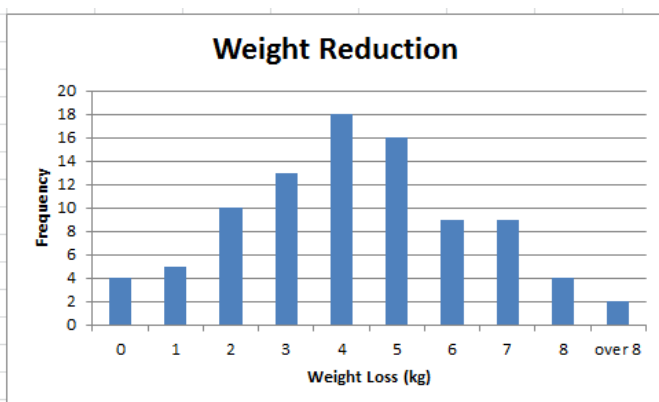
Ex: Ring sizes in a class.

Put Ring sizes in List 1 and frequency in L2

Stat-Calc-1Var Stats **L1,L2**

**\* You must put in L1,L2 or the calculator will only look at L1 for 1-Var Stats. If you put in L1,L2 the calculator knows L2 is the frequency.**

$L_1$	Up to	$L_2$	Freq
	0		4
	1		5
	2		10
	3		13
	4		18
	5		16
	6		9
	7		9
	8		4
	<del>10</del> over 8		2
			90



$\bar{X}$   
Mean: 4.3

$S_x$   
SD: 2.18

Min: 0

Q1: 3

Median: 4

Q3: 6

Max: 10

Mean:  $\bar{x}$  80  
SD:  $s_x$  10.08  
Min: 60  
Q1: 72.5  
Median: 80  
Q3: 87.5  
Max: 100

$L_2$ Frequency	$L_1$ Percent Correct
3	60
10	65
12	70
15	75
20	80
15	85
12	90
10	95
3	100

Frequency = Number of students who received that score



Homework :  
Worksheet 4-9