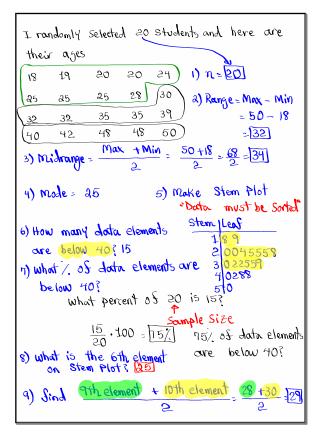


Feb 19-8:47 AM

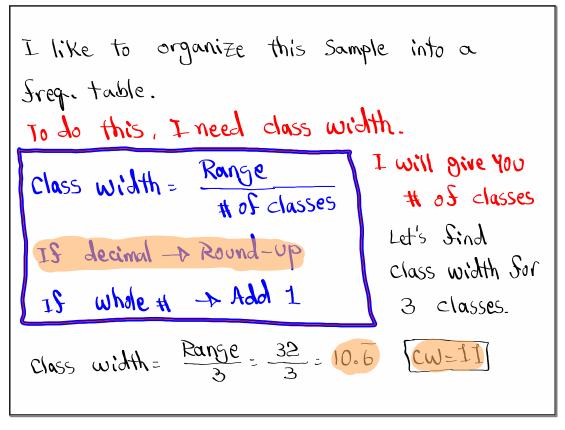
Consider the Sample below
$$2 + 4 + 10$$
1) $\pi = 4$

$$2) Range = Max - Min = 10 - 2 = 8$$
3) Midrange = $\frac{Max + Min}{2} = \frac{10 + 2}{2} = \frac{12}{2} = 6$
4) Mode = 4
5) $2x = 2 + 4 + 4 + 10 = 20$
Summation
6) $2x^2 = 2^2 + 4^2 + 4^2 + 10^2 = 136$
7) $\frac{2x}{n} = \frac{20}{4} = \frac{15}{12}$
8) $\frac{n \ge x^2 - (x)^2}{n(n-1)} = \frac{4 \cdot 136 - 20^2}{4(4-1)} = \frac{144}{12} = \frac{12}{12}$
9) $\sqrt{\text{Last answer}} = \sqrt{12} \approx 3.464$

Mar 8-8:06 AM

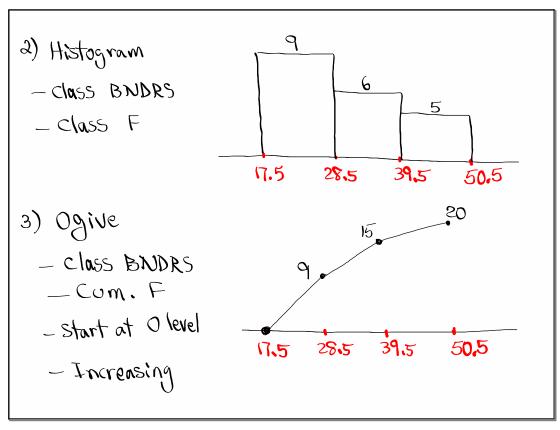


Mar 8-8:16 AM

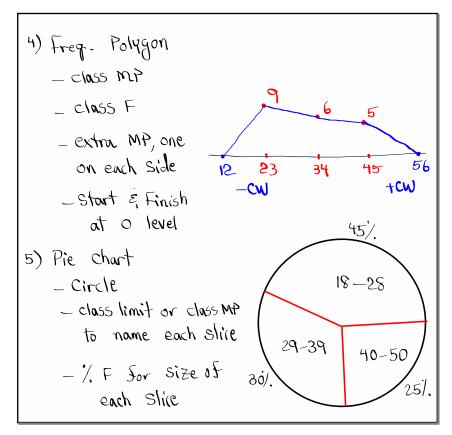


Class limits	class bndrsli	class mpl	class F/1	lum.F\	Re1.F %F					
18 - 28	17.5 - 28.5	23	9	9	.45 45%					
29 - 39	28.5 - 39.5	34	6	15	.30 30%					
40 - 50	39.5 -50.5	45	5	20	25 25/					
$\frac{28.5}{28} = \frac{29}{20}$ $Rel. F = \frac{F}{n} = \frac{F}{20}$										
Draw/graph										
1) Bar chart 6										
-class Limits										
— Class	E .	828	22.35	, 70	50					

Mar 8-8:38 AM



Mar 8-8:55 AM



Mar 8-9:00 AM

```
I randomly selected 25 exams, and here are
the Scores:
                               1) 11 = 25
       54
                        63
50
             59
                   60
       69
              72
68
                   75
                        75
                               a) Range = 100 - 50 = 50
                    82 85
              80
 75
       78
                                3) Midrange= (00+50 =75
                     90
              88
                         93
85
       85
              99
                     100
                          100
95
        98
                                4) Mode= 75 & 85
                                           Bimodal
5) Make Stem plot
                        6) How many data elements
  5049
                          are below 70? 7
  60389
 1 2 5 5 5 5 8
8 0 2 5 5 5 8
9 0 3 5 8 9
10 00
                        7) what ? 05 data elements
                           are below 70?
                               7 · 100 => 28/1
            the 10th element? 75
8) what is
               15th element + Next element 85+85
9) Sind
                            2
                                           -[85]
```

Let's make a freq. table with 4 classes.

Class width =
$$\frac{Range}{\# oS\text{-classes}} = \frac{50}{4} = 12.5$$

When whole # -> Add 1

Class limits class BNDRS class MP class F Cum. F Rel. F % F 50 - 62 49.5 - 62.5 56 4 4 .16 16%.

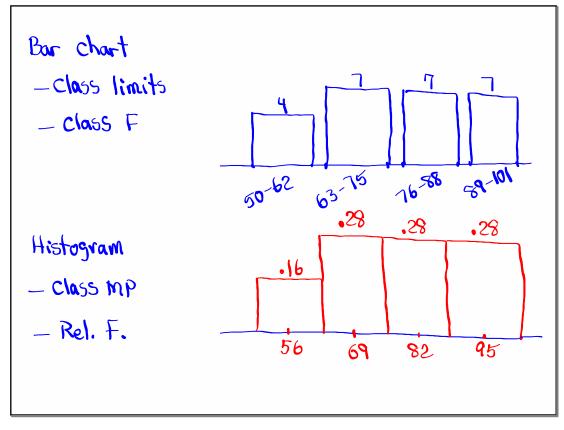
63 - 75 62.5 - 75.5 69 7 11 .28 28%.

76 - 88 75.5 - 88.5 82 7 18 .28 28%.

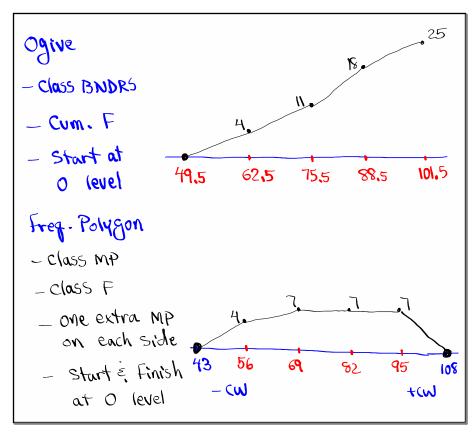
89 - 101 88.5 - 101.5 95 7 25 .28 28%.

Class MP = $\frac{5}{10}$ Class MP =

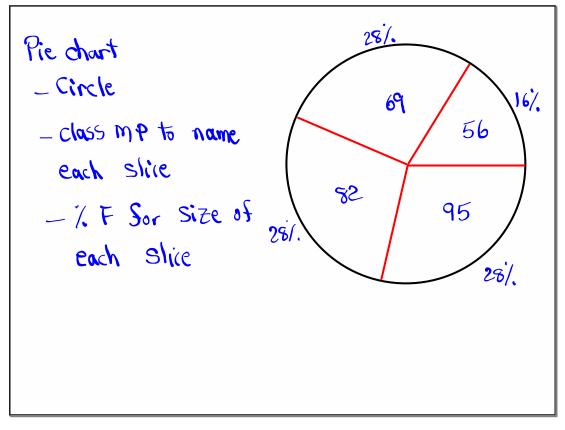
Mar 8-9:33 AM



Mar 8-9:46 AM

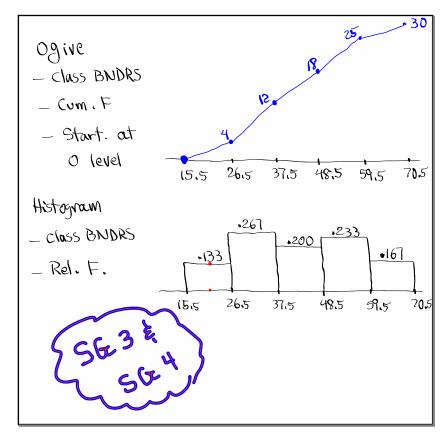


Mar 8-9:51 AM

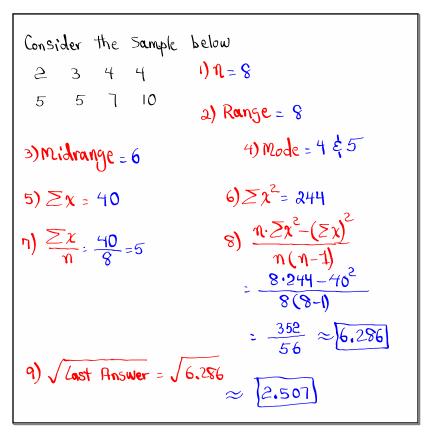


Mar 8-10:00 AM

<u>class limits class BNDRS cl</u> 16 - 26 15.5-26.5	iass mpi	class Fy	cum. F		13.3/ ₄					
37 - 37 26.5 - 37.5 38 - 48 37.5 - 48.5 49 - 59 48.5 - 59.5	32 43 54	8 6 7	12 18 25	•267 •200 •233	26.7% 20.0% 23.3%					
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$										
what /. of data elements are between 27 E, 59, inclusive? 267/. + 20.0/. + 23.3/.										



Mar 8-10:29 AM



Mar 8-10:41 AM

A Sample has a range of 40. Find class width Sor a freq. table if we wish to have

1) 3 classes
$$CW = \frac{Range}{3} = \frac{40}{3} = 13.\overline{3}$$
 $CW = 14$

2) 4 classes $CW = \frac{Range}{4} = \frac{40}{4} = 10$
 $CW = \frac{1}{4}$

3) 5 classes $CW = \frac{Range}{5} = \frac{40}{5} = 8$
 $CW = 9$

Mar 8-10:50 AM