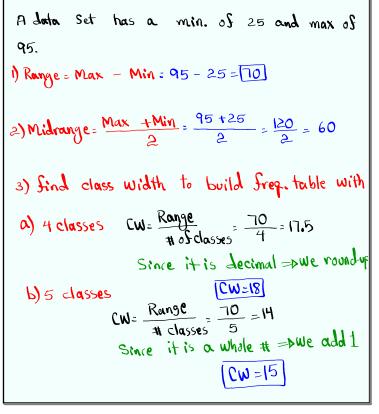


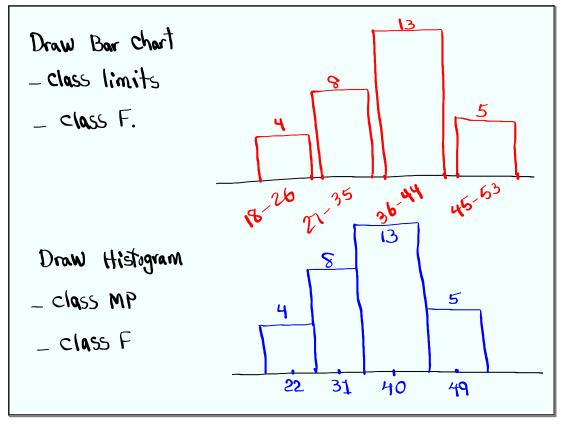
Feb 19-8:47 AM



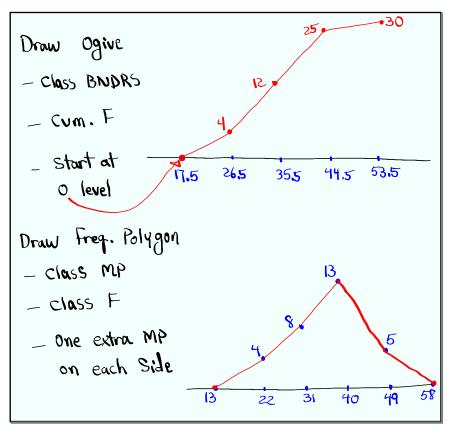
Feb 19-1:53 PM

Complete the chart below:					
class limits class BNDRS	class MPI	class F	Cum.F	Rel.FI	<u>%</u> F
18 - 26 17.5 - 26.5	aa	4	4	.133	13.3/
27-35 26.5-35.5	31	8	12	.267	2671
36 - 44 35.5 - 44.5	40	13	25	•433	43.3/
45 - 53 44.5 - 53.5	49	5	30	•167	16.7/
4 classes, $CW=27-18=9$, $\frac{26.5}{26}$, $Class MP = \frac{1}{26}$ $\frac{1}{26}$ $$					

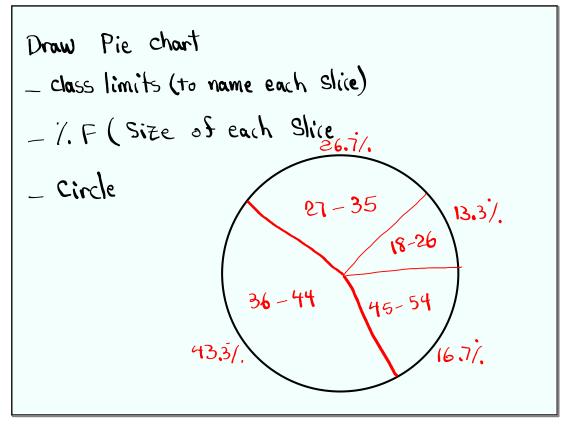
Feb 19-1:59 PM



Feb 19-2:09 PM



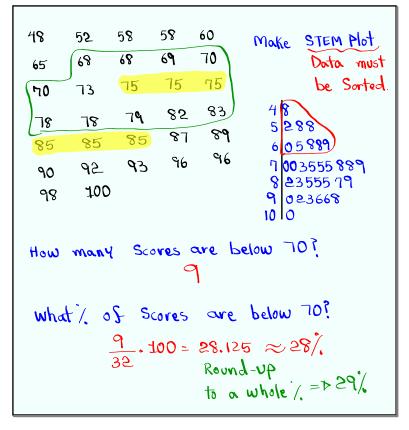
Feb 19-2:13 PM



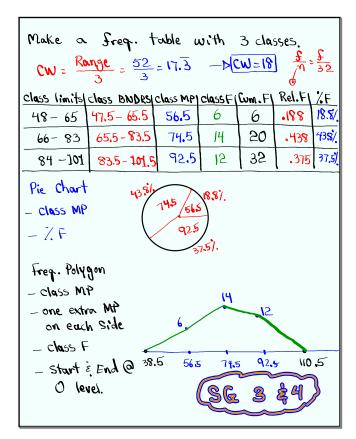
Feb 19-2:18 PM

```
I randomly selected 32 exams and here are
the Scores:
48
       52
             58
                  58
                        60
                             1) n= 32
             68
                  69
                        70
       68
 65
                             2) Mir. = 48, Max. = 100
                   75 75
             75
       73
 70
                   82 83 3) Range = Max - Min
              79
 78
       78
                                     = 52
                         80
                    87
             85
       85
 85
                         96 4) Midrange = Mak+Min
              93
       92
  90
                                        -774]
        100
  98
           75 E85 Bimodal
  5) Mode
 6) find class width is we wish to have
                       b)4 dasses
                                          c)5 classes
  a) 3 classes
                     CW = \frac{Range}{4} = \frac{52}{4}
  CW = \frac{\text{Range}}{3} = \frac{52}{3}
                                      CW= Range
                                 =13
           = 17.3
                          CW=14
     CW=18
                                            =10.4
                                         (CW=11
```

Feb 19-2:22 PM



Feb 19-2:35 PM



Feb 19-2:44 PM

Feb 19-3:01 PM

$$x \rightarrow Data$$
 element

$$\sum x \rightarrow Sum oS \quad data \quad elements$$

$$\sum x^{2} \rightarrow Square \quad every \quad data \quad element, \quad then \quad Sind$$
the Sum

 $n \rightarrow Sample \quad Size$

$$\overline{x} \rightarrow x - Dar \rightarrow Sample \quad Mean \quad (Average)$$

$$S^{2} \rightarrow Sample \quad Variance$$

$$\overline{x} = \frac{\sum x}{n} \qquad S^{2} : \frac{\sum (x - \overline{x})^{2}}{n - 1} \qquad S^{2} = \frac{m \sum x^{2} - (\sum x)^{2}}{n(n - 1)}$$
Consider the Sample below
$$2 \quad 4 \quad 4 \quad 6 \quad 6$$

$$m = 5 \qquad \qquad \sum x^{2} = 2^{2} + 4^{2} + 4^{2} + 6^{2} + 6^{2} : \boxed{108}$$

$$S^{2} : \frac{n \sum x^{2} - (\sum x)^{2}}{n(n - 1)} : \frac{5 \cdot 108 - 22^{2}}{5(5 - 1)} : \frac{5 \cdot 40 - 484}{5 \cdot 4}$$

$$= \frac{56}{20} : \boxed{2.8}$$

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$$x \rightarrow Dota$$
 element $\overline{\chi} = \frac{\sum \chi}{\eta}$
 $n \rightarrow Sample$ Size $S_z^2 = \frac{\sum (x-\overline{\chi})^2}{\eta-1}$
 $\overline{\chi} \rightarrow Sample$ Mean $S_z^2 = \frac{\eta \sum \chi^2 - (\sum \chi)^2}{\eta(\eta-1)}$
 $S_z^2 \rightarrow Sample$ Variance $S_z^2 = \sqrt{S^2}$
 $S_z^2 \rightarrow Sample$ Standard deviation

Soon last example $S_z^2 = 2.8$
 $S_z^2 = \sqrt{S^2} = \sqrt{S^2} = \sqrt{S^2}$

Consider the Sample below

1 3 3 3 6 6 6 9

1)
$$n = 8$$

2) Range = $9 - 1 = 8$

3) Midrange = $9 + \frac{1}{2} = 5$

4) Mode = $3 \neq 6$

5) $2x = 1 + 3 + 3 + 3 + 6 + 6 + 6 + 9$

6) $2x = 1 + 3 + 3 + 3 + 6 + 6 + 6 + 9$

7) $x = \frac{2x}{n} = \frac{31}{8} = 4.625$

8) $S^2 = \frac{31}{n(n-1)} = \frac{136 - 1369}{8(8-1)} = \frac{367}{56}$
 ≈ 6.554

9) $S = \sqrt{S^2} = \sqrt{6.554} \approx 2.560$

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kiven
$$n = 10$$
 $\sum x = 70$ $\sum x^2 = 490$

1) $\overline{x} = \frac{\sum x}{\eta} = \frac{70}{10} = \overline{1}$

2) $S^2 = \frac{\eta \ge x^2 - (\sum x)^2}{\eta(\eta - 1)} = \frac{10 \cdot 490 - 70^2}{10(10 - 1)} = \frac{4900 - 4900}{100}$

3) $S = \sqrt{S^2} = \sqrt{0} = \overline{0}$

Do not write 0 for Zero.

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