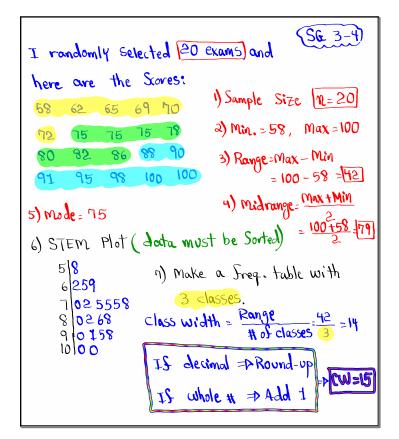
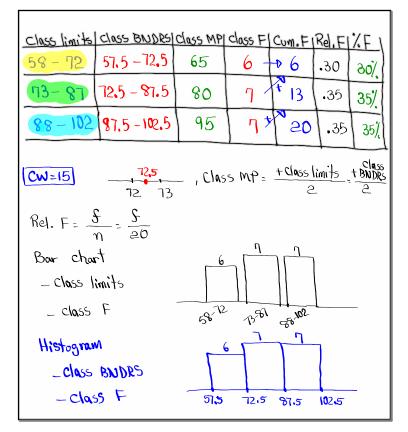
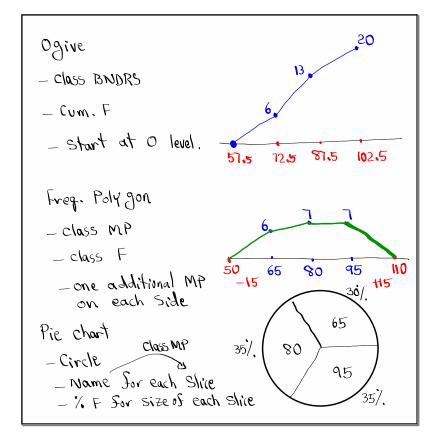


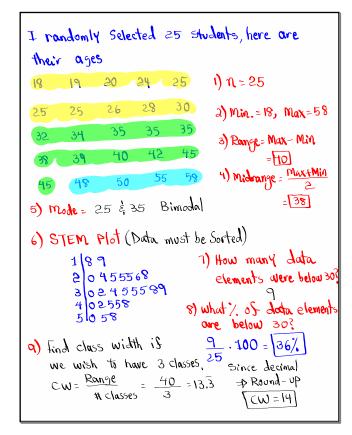
Feb 19-8:47 AM



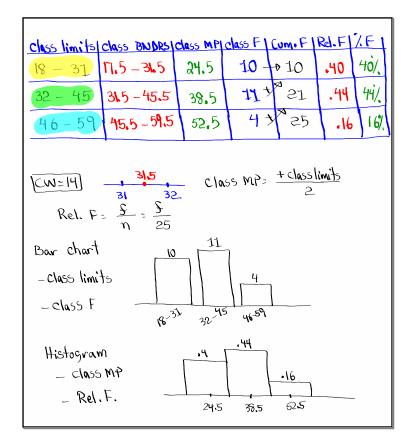


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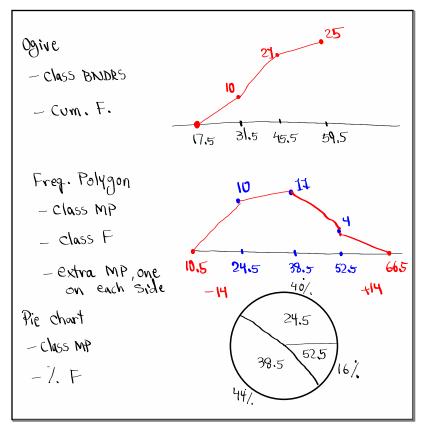




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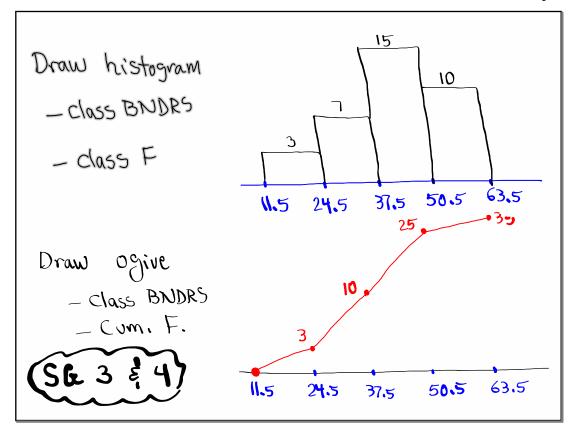


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Complete the Freq. table below							
Class limits Class BNDRS Class MP class F Cum. F Rel. F % F							
	12-24	11.5-24,5	18	3	3	-086	8.6/
	25 - 37	245-37,5	31	7	10	.200	20.0%
	38 - 50	37.5-50.5	44	15	25	.429	42.91
	51 - 63	505 - 63,5	5 57	10	35	.28	6 28.6%
4 Classes, $cw = 25 - 12 = 13$, $\frac{24.5}{24}$, $class MP = \frac{11}{25}$ $m = 35$ Rel. $F = \frac{f}{m} = \frac{f}{35}$ what ?. of Jota Jall between $25 \notin 50?$ $20.0/. + 42.9/. \approx 63/.$ what ?. of Jata are at least 25? $20.0/. + 42.9/. \approx 63/.$							



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Consider the Sample below
1 3 3 5
1)
$$n = 5$$
 2) Range = 5 - 1 = 4 3) Midnange = $\frac{5+1}{2}$
= 3
4) Mode = 3 5) $\ge \chi = 1 + 3 + 3 + 3 + 5 = 15$
6) $\ge \chi^2 = 1^2 + 3^2 + 3^2 + 5^2 = 53$
7) $\ge \chi = \frac{15}{5} = 3$ 8) $\frac{n \ge \chi^2 - (\ge \chi)^2}{n(n-1)}$
= $\frac{5 \cdot 53 - (15)^2}{5(5-1)}$
9) Just Ans = $\sqrt{2} \approx 1.414$ = $\frac{40}{20} = 2$

$$\begin{array}{l} x \rightarrow \text{Data element} \\ \sum x \rightarrow \text{Sum of data elements} \\ n \rightarrow \text{Sample Size} \\ \overline{x} \rightarrow "x \rightarrow \text{bar"} \rightarrow \text{Sample Mean (Average)} \\ \overline{x} = \frac{\sum x}{n} \\ ex: \text{Consider the Sample below} \quad n=8 \\ 2 & 3 & 3 & 4 & 4 & 4 & 10 \\ 2 & 3 & 3 & 4 & 4 & 4 & 10 \\ \text{Exerce and a set of the second second$$

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$$x \rightarrow Data$$
 element
 $\sum x \rightarrow Sum oS$ Jota elements
 $x^{2} \rightarrow Data$ element²
 $\sum x^{2} \rightarrow Sum oS$ Jota elements
 $\overline{x} \rightarrow x - bar$ Sample Mean
 $S^{2} \rightarrow Sample$ Variance
 $\overline{x} = \sum x$
 \overline{x}
 $\overline{x} = \frac{2x}{n}$
 $S^{2} = \frac{2(x - \overline{x})^{2}}{n - 1}$
 $S^{2} = \frac{n \ge x^{2} - (\ge x)^{2}}{n(n - 1)}$

Consider the Sample below
2, 4, 4, 5, 10

$$2x = 25$$
 $2x^2 = 161$
 $\overline{x} = \frac{2x}{n} = \frac{25}{5} = 5$
 $s^2 = \frac{n \ge x^2 - (\ge x)^2}{n(n-1)} = \frac{5 \cdot 16(-25^2)}{5(5-1)} = \frac{180}{20} = 9$
 $\sqrt{4st - 4n5} = \sqrt{9} = 3$

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$$\begin{aligned} \text{Griven} \quad n=8 \quad , \quad \sum x=48 \quad , \quad \sum x^2 = 288 \\ \text{Find} \\ \overline{\chi} = \frac{\sum x}{n} = \frac{48}{8} = 6 \quad \qquad S^2 = \frac{n \sum x^2 - (\sum x)^2}{n(n-1)} \\ = \frac{8 \cdot 288 - 48^2}{8(8-1)} \\ = \frac{9 \cdot 288 - 48^2}{8(8-1)} \\ \text{Substans} = \sqrt{9} = 0 \quad \qquad \text{Substans} = \sqrt{9} = 0 \end{aligned}$$

$$\overline{x} \quad \text{Somple Mean}$$

$$S^{2} \quad \text{Somple Variance}$$

$$S \quad \text{Somple standard devication}$$

$$\overline{x} = \frac{2x}{n}$$

$$S^{2} \quad \text{Somple standard devication}$$

$$\overline{x} = \frac{2x}{n}$$

$$S^{2} = \frac{n \ge x^{2} - (z_{1})^{2}}{n(n-1)}$$

$$S^{2} = \sqrt{s^{2}}$$

$$\overline{x} = 20 \qquad \sum x^{2} = 118 \qquad n=5$$

$$\overline{x} = 20 \qquad \sum x^{2} = 118 \qquad n=5$$

$$\overline{x} = \frac{20}{5} = [4] \qquad S^{2} = \frac{n \ge x^{2} - (\ge x)^{2}}{n(n-1)} = \frac{5 \cdot 18 - 20^{2}}{5(5-1)}$$

$$\text{Somple standard deviation} \qquad = \frac{190}{20} = \frac{19}{2} = \frac{9.5}{5}$$

$$S = \sqrt{S^{2}} = \sqrt{9.5} = 3.082$$

$$\approx [3]$$

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