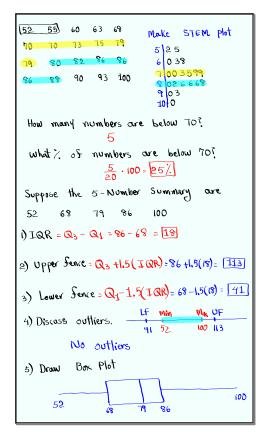


Feb 19-8:47 AM

I randomly Selected 10 Quizzes, and here are  
the Scores.  
1) n=10  
8 5 6 8 10  
4 5 7 2 10  
3) Midrange: 
$$10 \pm 2 = 6$$
  
3) Midrange:  $10 \pm 2 = 6$   
3) Midrange:  $10 \pm 2 = 6$   
4) Mode: 5,8,10  
Trimodal  
5)  $\sum x = 65$   
6)  $\sum x^2 \pm 83$   
7)  $\overline{x} = \frac{\sum x}{n}$   
 $= \frac{65}{10} = 6 \cdot 5$   
9)  $S^2 = \frac{n \ge x^2 - (\ge x)^2}{n(n-1)}$   
 $= \frac{10 \cdot 483 - 65^2}{10(10-1)}$   
 $= \frac{605}{90} \approx \frac{10 \cdot 483 - 65^2}{10(10-1)}$   
9)  $S = \sqrt{S^2}$   
 $= \sqrt{6.722} \approx \frac{2.593}{2.593}$   
10) Estimate S  
 $S \approx \frac{Range}{4} \approx \frac{9}{4} = (2)$ 

I randomly selected 20 exams, and here the Sures  
52 55 60 63 68 1) 11 = 20  
70 70 73 75 79 2) Range = 100 - 52 = 48  
79 80 82 86 86  
86 88 90 93 100 3) Midrange = 
$$\frac{100 + 52}{2} = 76$$
  
4) Mode = 86 5) Estimate  $S \approx Range$   
 $= 4\frac{4}{4} = 123$   
6)  $\Sigma \chi = 1535$  r)  $\Sigma \chi^2 = 120963$   
8)  $\overline{\chi} = \frac{\Sigma \chi}{\pi} = \frac{1535}{20}$  9)  $S^2 = \frac{\pi \Sigma \chi^2 - (\Sigma \chi)^2}{\pi(\eta - 1)}$   
 $= 76.75$   $\frac{20 \cdot (20963 - 1535^2)}{20(20 - 1)}$   
10)  $S = \sqrt{S^2}$   $= \frac{6.3035}{380} \approx 165.882$   
 $= \sqrt{165.882} \approx 12.880 \approx 13$   
11) 68%. Range  $\Rightarrow \overline{\chi} \pm S = 77 \pm 13 \Rightarrow 64 \pm 90$   
12) Usual Range  $\Rightarrow \overline{\chi} \pm 2S = 77 \pm 2(13) \Rightarrow 51 \pm 103$ 

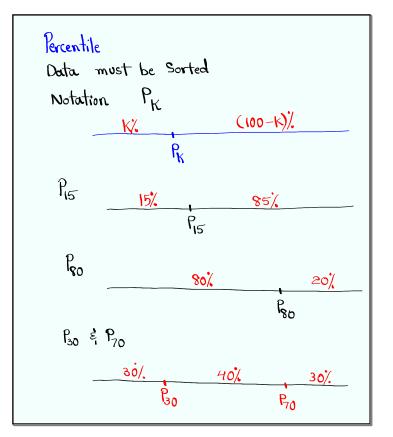
Feb 26-1:59 PM



Feb 26-2:16 PM

A data Set has a mean of 125 and  
standard deviation of 15.  
1)68% Range = 
$$\overline{x} \pm S = 125 \pm 15 \Rightarrow 110 \pm 140$$
  
2) 95% Range =  $\overline{x} \pm 2S = 125 \pm 2(15) \Rightarrow 95 \pm 155$   
3) 99.7% Range =  $\overline{x} \pm 2S = 125 \pm 2(15) \Rightarrow 95 \pm 155$   
3) 99.7% Range =  $\overline{x} \pm 3S = 125 \pm 3(15) \Rightarrow 80 \pm 170$   
4) Sind the Z-Score for data element 150.  
 $\overline{Z} = \frac{x-\overline{x}}{S} = \frac{150-125}{15} = \frac{25}{15} = \frac{1.667}{1.667}$   
5) Sind the data element with Z-Score of -1.6.  
 $\overline{Z} = \frac{x-\overline{x}}{S} = \frac{x-\overline{x}}{15} = \frac{x-\overline{x}}{15} = \frac{x}{15} = -1.6(15)$   
 $x = 1.6 = \frac{x-125}{15} = \frac{25}{15} = -1.6(15)$   
 $\overline{x} = 1.6(15)$   
 $\overline{x} = 101$ 

Feb 26-2:28 PM



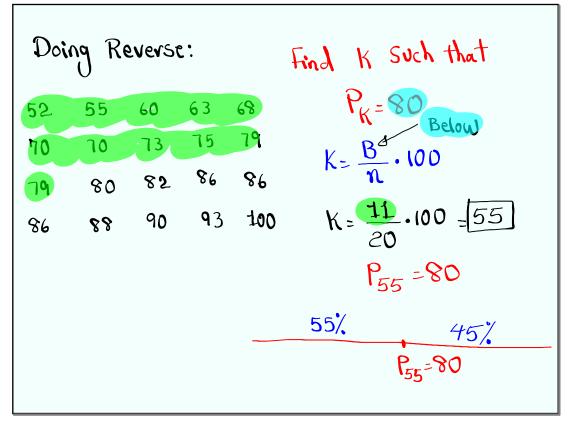
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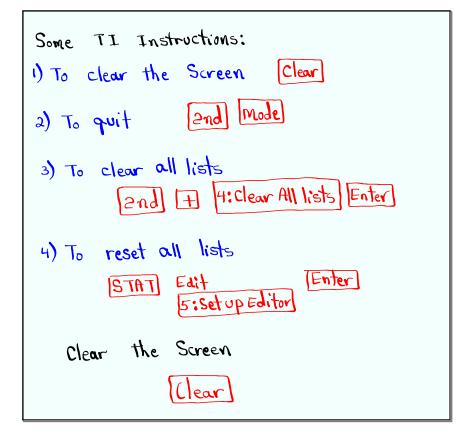
Feb 26-2:44 PM

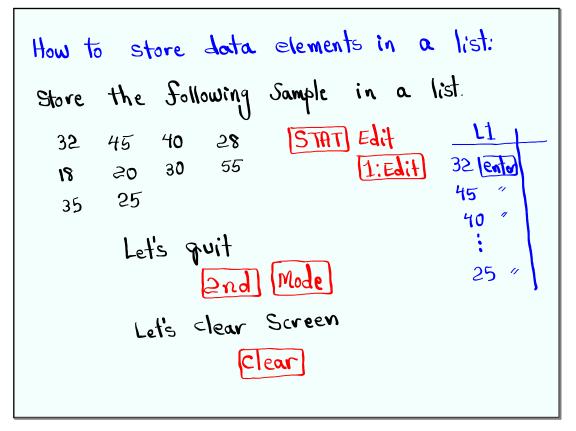
52 55 60 63 68  
70 10 73 75 79  
79 80 82 86 86  
86 88 90 93 100  

$$30/.$$
 70/.  
 $B_{30}=\frac{644 + 744}{2}$   
 $Jind P_{88}$   
 $L = \frac{38}{100} \cdot 20 = 17.6$  L=18  
 $L = \frac{38}{100} \cdot 20 = 17.6$  L=18  
 $P_{30} = 1844$  element  
 $= \frac{70 + 70}{2} = 10$   
 $P_{88} = 1844$  element  
 $= 100$   
 $88/.$   $12/.$   
 $P_{88} = 90$ 

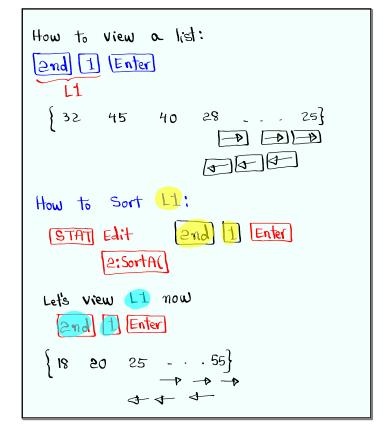


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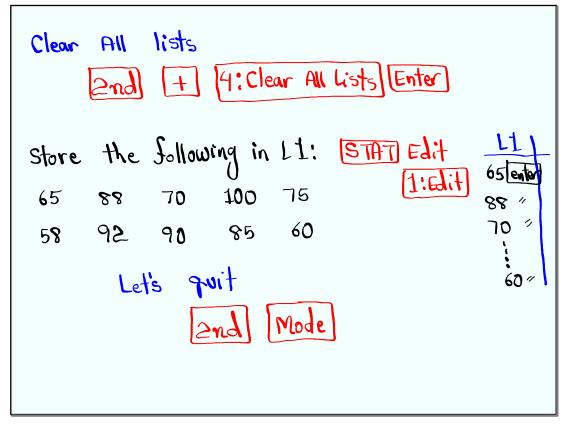




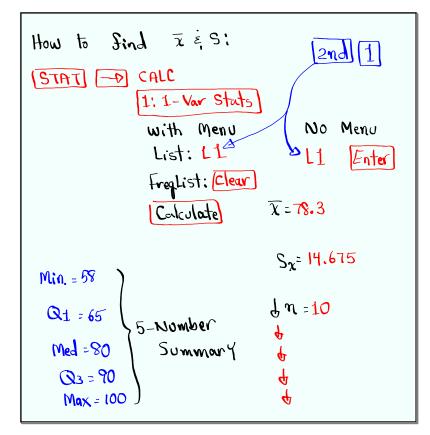
Feb 26-3:14 PM

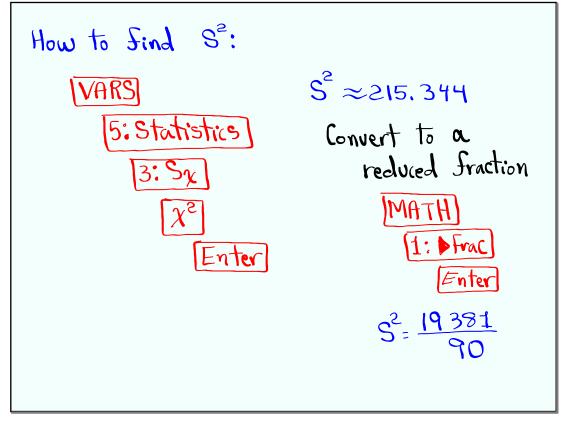


Feb 26-3:19 PM

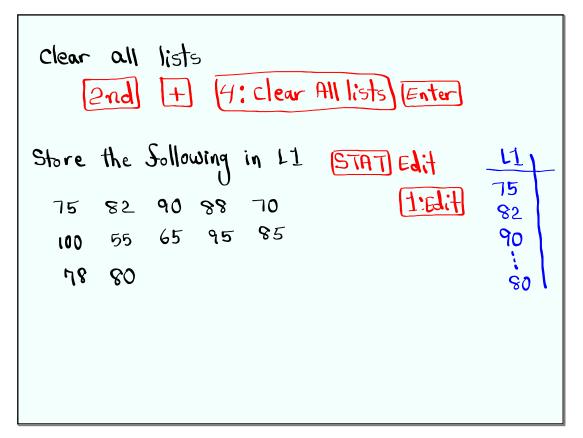


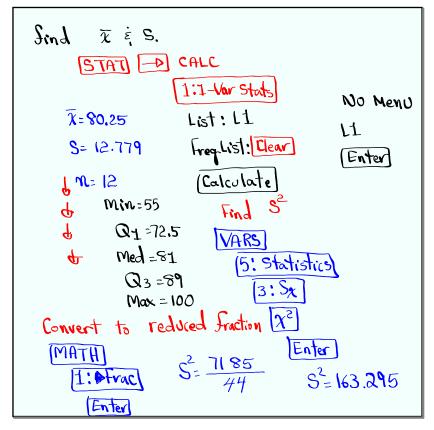
Feb 26-3:26 PM





Feb 26-3:38 PM





Feb 26-3:47 PM