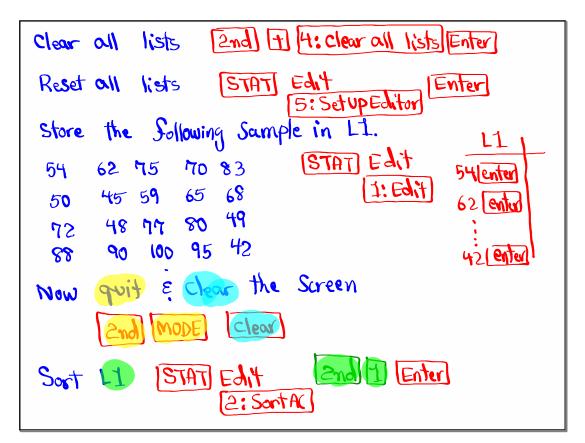
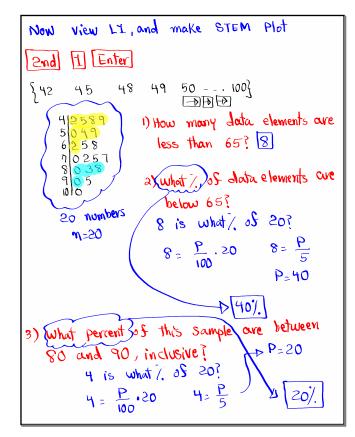


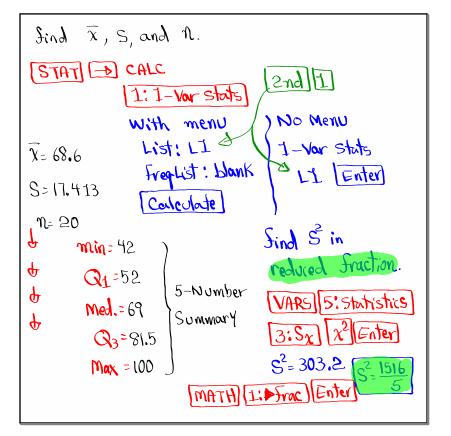
Feb 19-8:47 AM

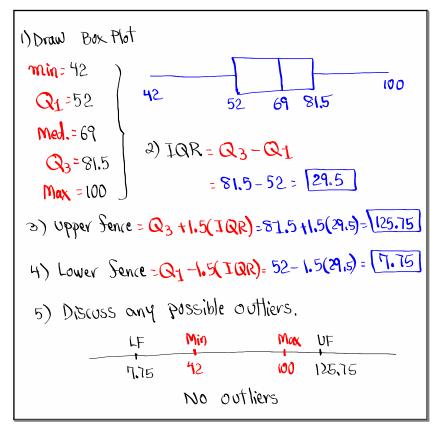


Feb 16-7:16 AM

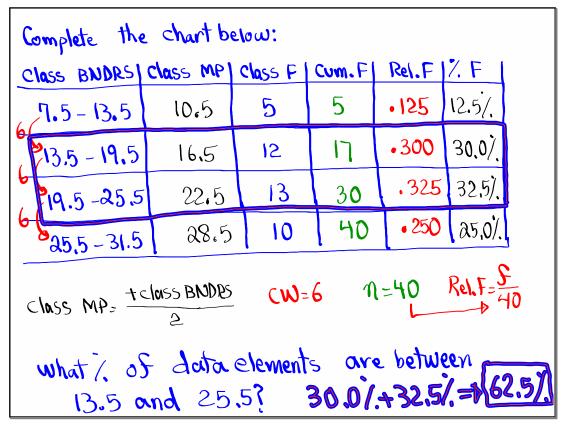


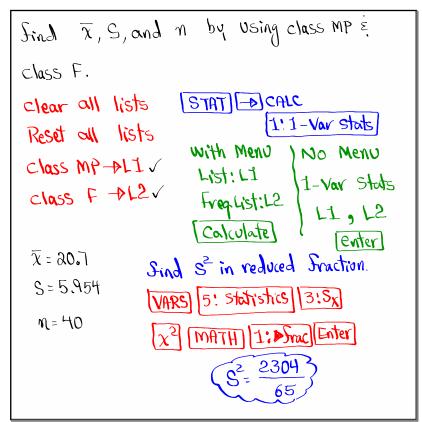
Feb 16-7:25 AM



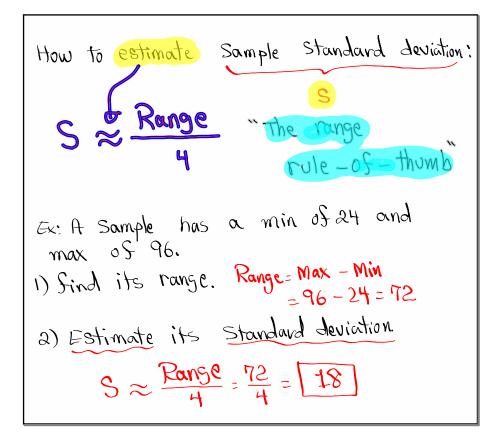


Feb 16-7:44 AM





Feb 16-8:05 AM



Empirical Rule:
About 65% of data elements are within

$$\overline{x} \pm S$$

About 95% of data elements are within
Usual Range $\overline{x} \pm 2S$
About 99.7% of data elements are within
 $\overline{x} \pm 3S$
It is best when data distribution
is symmetric. (Mean = Mode = Median)

Feb 16-8:18 AM

I randomly selected 60 exams. Scores had
a mean of 82 with Standard
deviation of 6. Assume Scores had a
Symmetric dist.
1) 68% Range =>
$$\overline{x} \pm S = 82 \pm 6$$

=> $1/675 88$
a) 95% Range => $\overline{x} \pm 2S = 82 \pm 2(6)$
USUAL Range => $\overline{x} \pm 2S = 82 \pm 2(6)$
USUAL Range => 2.5%
 $3.99.7\%$ 95% 2.5%
 $3.99.7\%$ Range => $\overline{x} \pm 3S$
 $82 \pm 3(6) = 82 \pm 18$
 $\Rightarrow 64 to 100$

Feb 16-8:25 AM