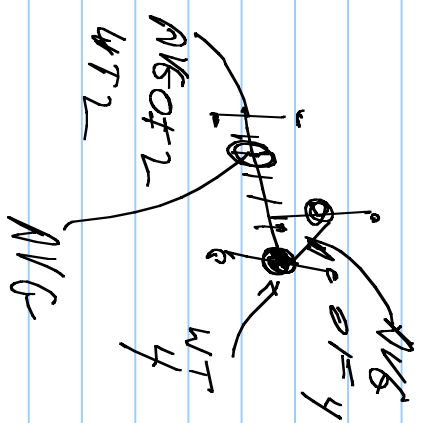
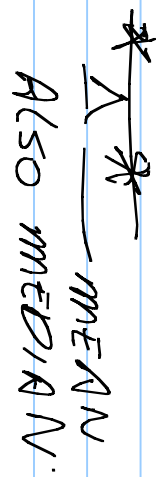
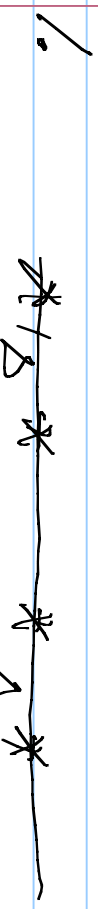


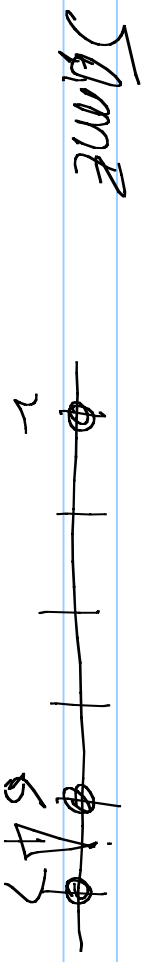
ST1200 9-11-09

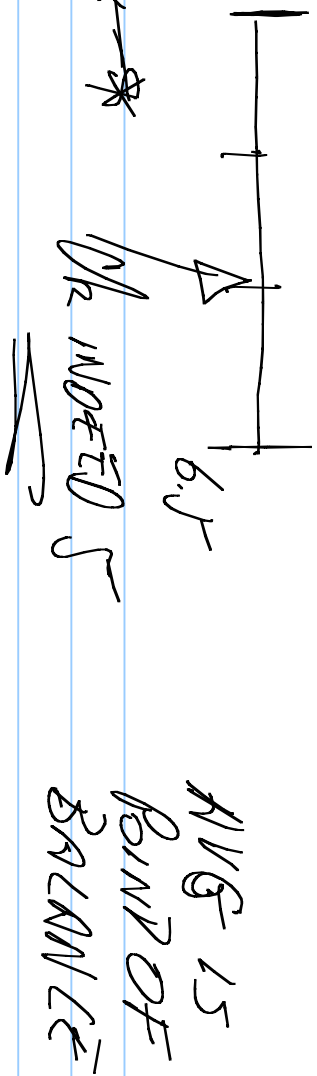
BOUNDS OVER TOBY'S HANDBOY.

EXAMPLE IS WEDNESDAY NEXT WEEK (NOT TUES.)



TRY 2 6 7 AVG $\frac{2+6+7}{3} = 5$



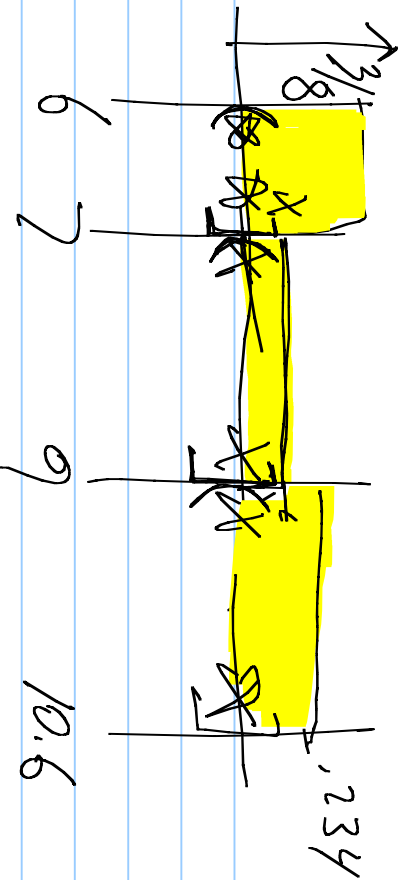


2. MEDIAN ————— MEDIAN SCORE IS
 MID-SCORE IF n
 IS ODD.

IF n IS EVEN. TAKE TWO
 VALUES IN MIDDLE - SO
 AVG THESE 2 MID
 SCORES.

3. 2 6 6 8 9 200000
 2 6 6 (8) 9 20

4.



$n = 8$

HT OF RR ALSO ON GIVEN

BIN 15 $H = \frac{FR}{WIDTH}$

$w = 1$ $w = 2$

RR $3/8$ RR $= 1/8$

$w = 1.6$

RR $= 3/8$

$H = (3/8) / 1 = 3/8$ $H = (2/8) / 2 = 1/8$ $H = (3/8) / 1.6 = .234$

NOTE: MORE COUNTS IN BIN \Rightarrow GOOD BREAK INTO SMALLER BINS.

5. STANDARD DEVIATION $\sigma = \sqrt{\frac{\sum_{i=1}^m (x_i - \bar{x})^2}{(n-1)}}$

CALCULATOR

σ_x n DIVISOR

σ_x n-1 "

1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19
20	20	20
21	21	21
22	22	22
23	23	23
24	24	24
25	25	25
26	26	26
27	27	27
28	28	28
29	29	29
30	30	30

GAP 6

GAP 20/3

GAP 12

GAP 5

$\bar{x} = \frac{14 + 7 + 12}{3} = \frac{20}{3}$

$\sigma = \sqrt{\frac{(1 - \frac{20}{3})^2 + (7 - \frac{20}{3})^2 + (12 - \frac{20}{3})^2}{3-1}}$

$= 4.38$ S.S. S.S.

PLEASE KNOW HOW TO DO IT - (FORMULA)

$n?$ $n-1?$

YOU DO IT !!

SKIP #9 LIST HAS AVG $\bar{x} = 4.8$ GIVE $\bar{2x} = 2\bar{x}$

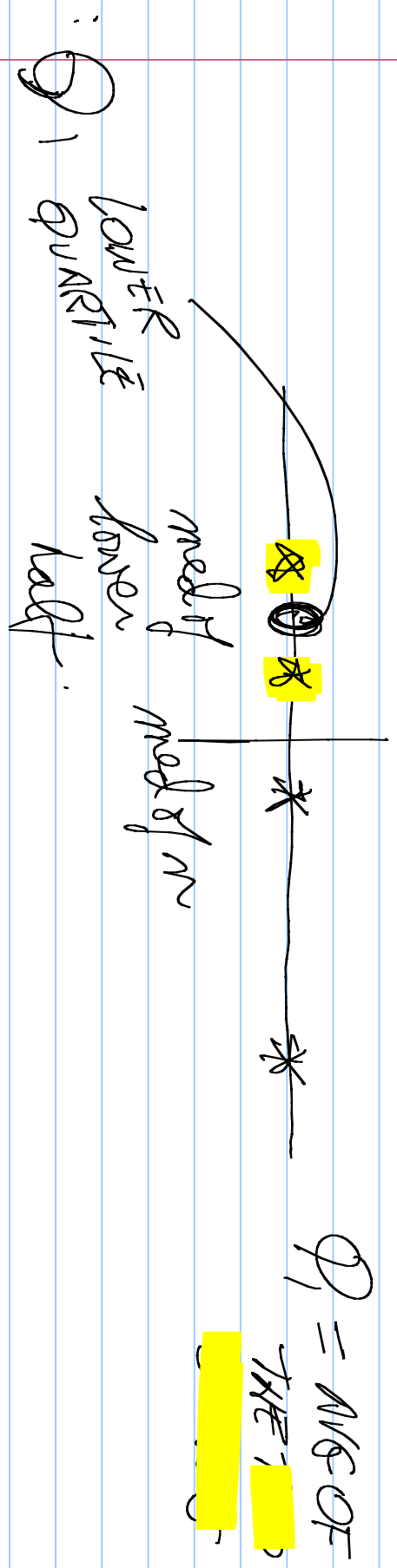
10. $\bar{y} = 3.8$ $\overline{2y+3} = 2\bar{y} + 3 = 2(3.8) + 3 = 10.6$

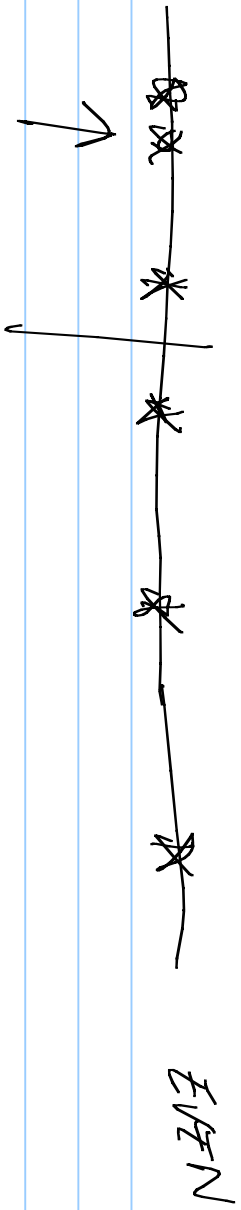
11. LIST 3 HAS $\sigma_2 = 2.2$, $\sigma_{23} = 12/2$

$$12. \quad A_w = 5.7 \quad A_{w+19} = A_w \quad \text{SD IS NOT CHANGED BY ADDING OR SUBTRACTING A CONSTANT. (FROM EVERY # ON LIST).}$$

#6. FIRST QUANTILE ($\frac{1}{4}$ WAY THROUGH THE ORDERED LIST).

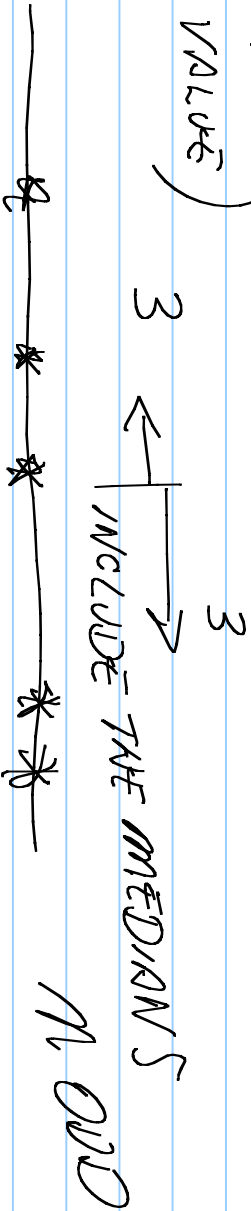
TEXT: AGAIN n EVEN/ODD.



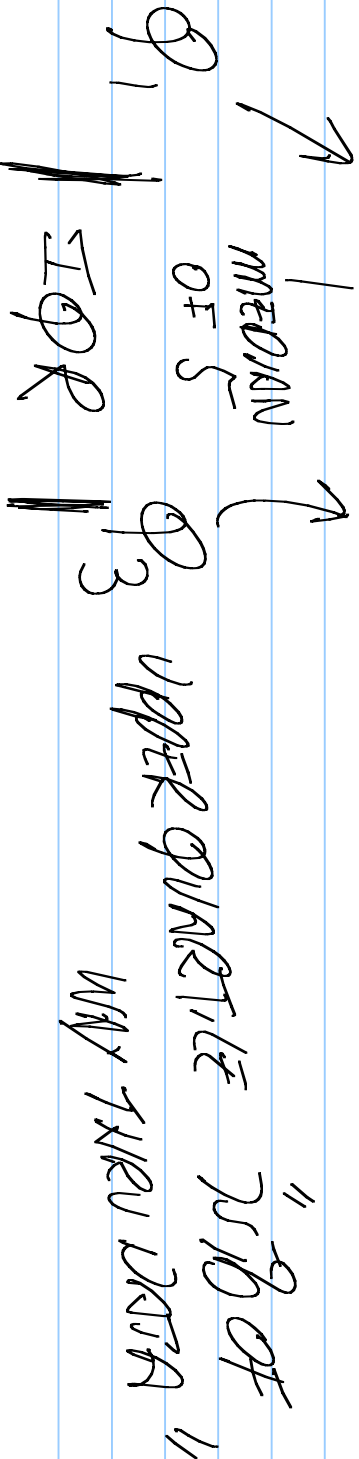


Q_1 MEDIAN OF 6

(THIS VALUE)



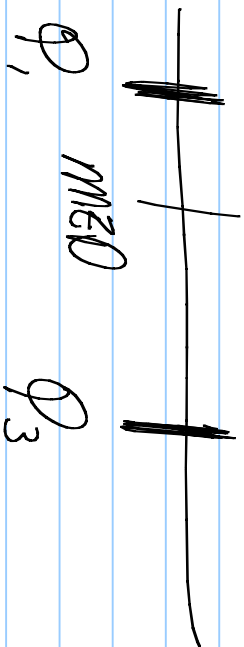
MEDIAN OF 5



"UPPER QUANTILE"
"UPPER QUANTILE"
"UPPER QUANTILE"
"UPPER QUANTILE"

INTER QUARTILE RANGE = $Q_3 - Q_1$

Display:



Groups of 10 or so.

List NAME SECTION

PREPARE SCORES x_1, \dots, x_n REPORT n

(LAST DIGIT OF YOUR STUDENT #

01

0123

0 - - - 9

↑ 4.5 ↑

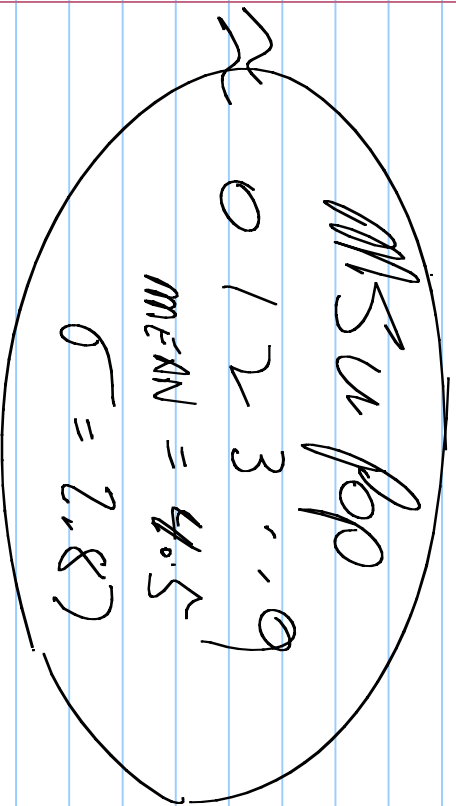
≡

CALC POPULATION MEAN $0+1+\dots+9 = 4.5$

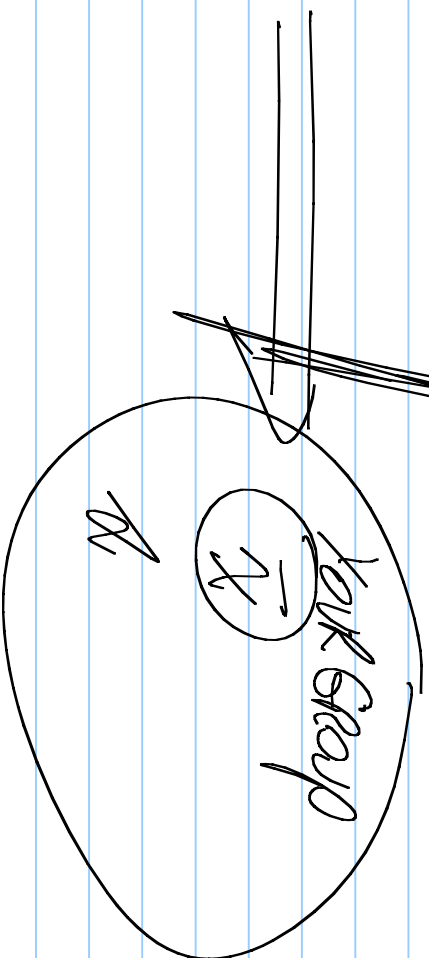
CALC POPN STANDARD DEVIATION = $\frac{10}{10} \sqrt{(0-4.5)^2 + \dots + (9-4.5)^2}$

FOR YOUR GROUP

SIGMA



DIVISOR 10



POPULATION OF MSZL. $\bar{X} = 4.5$ $\sigma = 2.8$ THEORY

NONAME 1 \bar{X} 3.5 σ 2.167

NONAME 2 4.29 3.817

NONAME 0 4.33 3.50

NIGHT HAWKS 5.09 3.33

BURPETE 3 2.82

STANLETY 6.33 3.81

3.91 3.25

