

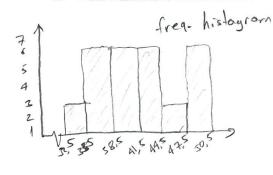
The number of dedths increased until 1980 then decreased among 1950 to 1990 and again increased until 2000.

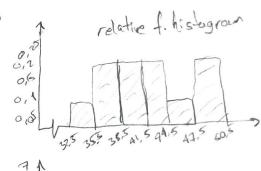
max data- mindata = 50-33 = 17 6 = 2.83 round up 3-prlasswidth

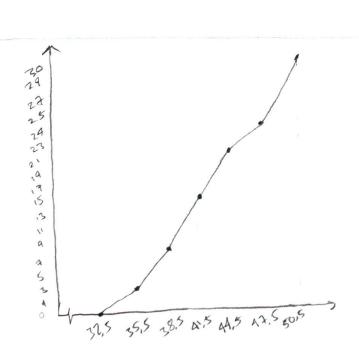
class		relative f.	cumulative fred. dist.
33-35	3	0,1	3
36-38	6	0,2	9
39 - 41	6	0,2	15
42-44	6	0.2	21
45 - 47	3	0.1	24
48-50	6	0,2	30

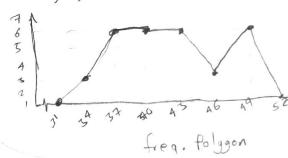
3 class	f
32,5 - 35,5 35,5 - 38,5	3
35,5 - 38,5	6
41,5 - 44,5	6
47.5 - 47.5	3

3









5 = Ex = 96+99+92+96+89+97+96+90+91+84 = 94 = x mean

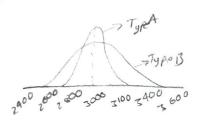
median > 89,90,91,92,94,96,96,96,97,99

9++96 2 = 95

6 Ronge = 5, 2 - 0,8 = 4,4

$$\bar{x} = \frac{2x}{n} = \frac{31.7}{10} = \frac{31.7}{10} = \frac{4.08 + 4.33 + 0.23 + 3.53 + 2.82 + 1.74 + 0.85 + 4.33 + 2.6215.38}{10-1}$$

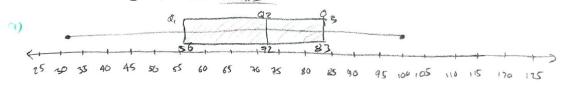
= 332



(3)

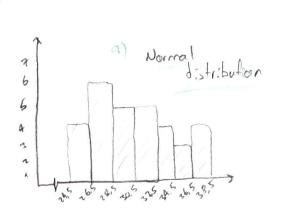
Type A must purchased because the stopdard deviation is small.

$$Q_{1}=56$$
 $Q_{2}=\frac{70+74}{2}=72$ 
 $Q_{3}=83$ 



b) The box represent about Malf of data, which are between 56 and 83. The left whister represent about are quarter of the data, so about 25% of data entries are less than 56, Right whister greater than 84. Left whister is much larger than the right one. This is not outlier of the data set. There are 22 scores of the data fall on or below the 93.

Class	(
245-265 265- <b>2</b> 85	4
28,5-30,5 30,5-32,5	5
32,5-345	3
36,5-385	4



$$\sigma_{\overline{x}} = \frac{\sigma}{\sqrt{n}} = \frac{4}{\sqrt{30}} = 0,73$$

$$P(150 < x < 2000) = \left(\frac{150 - 160}{7} < z < \frac{200 - 160}{7}\right) = \left(-1,42852 < 5.714\right)$$

a) 
$$E = 2,575. \frac{36}{\sqrt{60}} = 11,967$$

$$E = 2,575. \frac{26}{\sqrt{60}} = 11,967$$

$$\frac{26}{\sqrt{60}} = 11,967$$

6) 
$$E = 196 \cdot \frac{36}{160} = 9,109$$

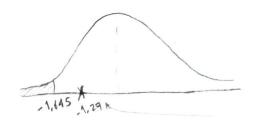
confidence interval is norrowing.

$$\hat{P} - z \stackrel{\times}{=} \sqrt{\frac{\hat{P} \cdot (1 - \hat{P})}{n}} < P < \hat{P} + z \stackrel{\times}{=} \sqrt{\frac{\hat{P} \cdot (1 - \hat{P})}{n}}$$

$$\hat{\beta}: \frac{x}{n} = \frac{123}{300} = 0.41$$

$$0.41 - 2.33$$
  $\sqrt{(0.41) \cdot (0.59)}$  <  $6 < 0.41 + 2.33$   $\sqrt{(0.41) \cdot (0.59)}$ 

$$Z = \frac{X - M}{\sigma_{1}}$$
  $\Rightarrow \frac{3.3 - 3.4}{0.6} = \frac{0.1}{0.07745} = -1.29$ 



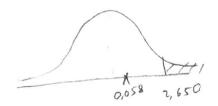
fail to reject null hypotosis

$$X = 843 = 60,2$$

$$\overline{X} = \frac{843}{14} = 60,21$$
  $S = \sqrt{\Sigma(\bar{x}-\bar{x})^2} = \sqrt{2344.356}$ 

$$t = \frac{\bar{x} - M}{s} \implies \frac{60.21 - 60}{\sqrt{14}} \approx 0.058$$

$$0 = 0,01$$
 $t_{e} = 2650$ 



$$\hat{P} = \frac{x}{\Lambda} = \frac{88}{500} = 0,176$$

$$\frac{Z = \hat{P} - P}{\sqrt{(P-q)}} = \frac{0,176 - 0,2}{\sqrt{(0,2) \cdot (0,8)}} = \frac{-0,024}{0,0178} \approx -1,34$$

Fall to reject hypotesis