

$$\text{Mean } \bar{x} = \frac{20 + 22 + 23 + 25 + 70}{5}$$

$$\text{Median } 20, 22, 23, 25, 70$$

22.5

$$\text{Mode } 20, 22, 23, 25, 25$$

$$\text{Range } 20, 22, 23, 25$$

$$25 - 20$$

$$5$$

$$\text{Midrange } \frac{20 + 25}{2}$$

$$\frac{45}{2}$$

$$22.5$$

x^1	x^2
20	400
22	484
23	529
25	625
<u>90</u>	<u>2038</u>

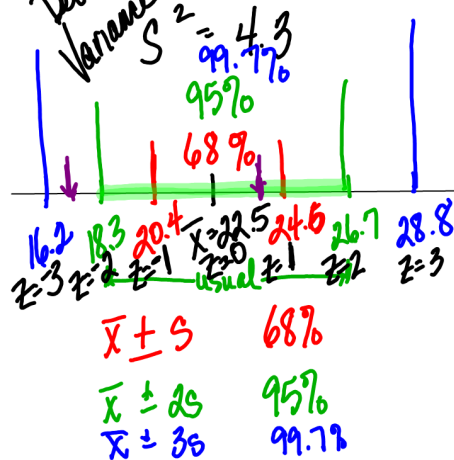
$$s = \sqrt{\frac{4(2038) - (90)^2}{4(4-1)}}$$

$$s = \sqrt{\frac{8152 - 8100}{12}}$$

$$s = \sqrt{\frac{52}{12}}$$

$$s = \sqrt{4.3}$$

Standard Deviation $s = 2.082$
 Variance $s^2 = 4.3$



Z-Score

$$Z = \frac{x - \bar{x}}{s}$$

$x=24$

$$Z = \frac{24 - 22.5}{2.1}$$

$$Z = .71$$

$x=17$

$$Z = \frac{17 - 22.5}{2.1}$$

$$Z = -2.62$$

20, 22, 23, 25

data pt
23

3rd number

% tile

p118

$$3 = \left(\frac{K}{100}\right) 4$$

75th