

3.3

21. p108 formula

$$CV = \frac{S}{\bar{X}}$$

30 Days

$$CV = \frac{23.2}{272.6}$$

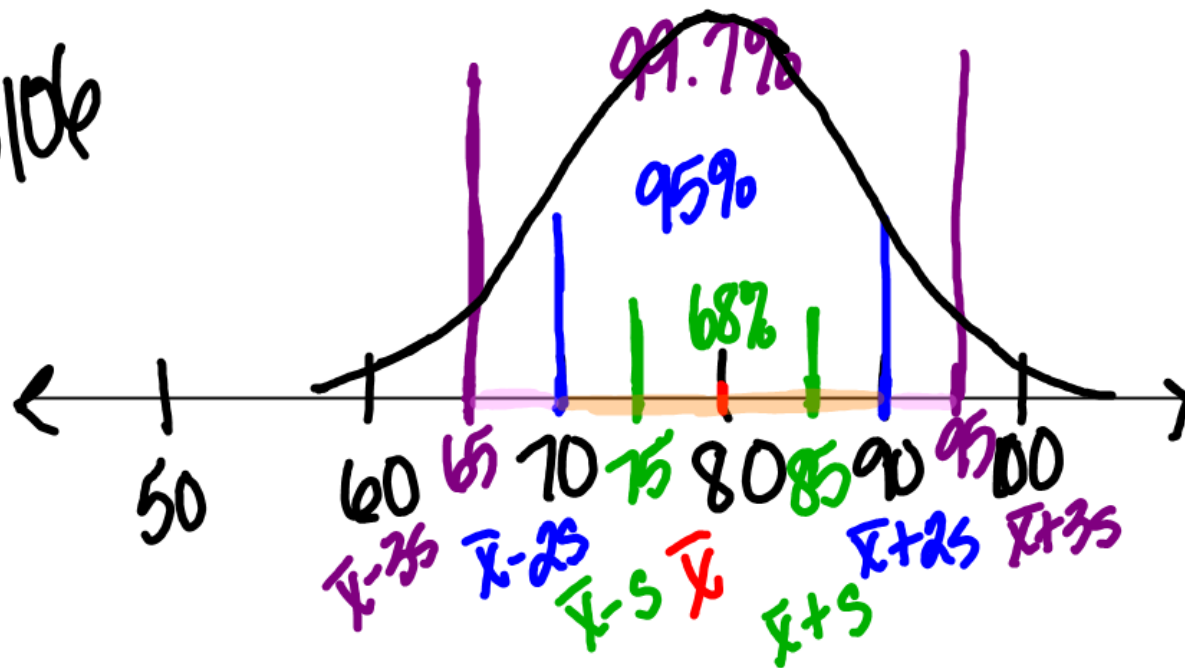
.085  
8.5%

1 Day

$$CV = \frac{232.96}{690.29}$$

.337  
33.7%

plot



$$\bar{x} = 80$$

$$s = 5$$

$$n = 100$$

$$\bar{x} \pm s$$

$$\bar{x} \pm 2s$$

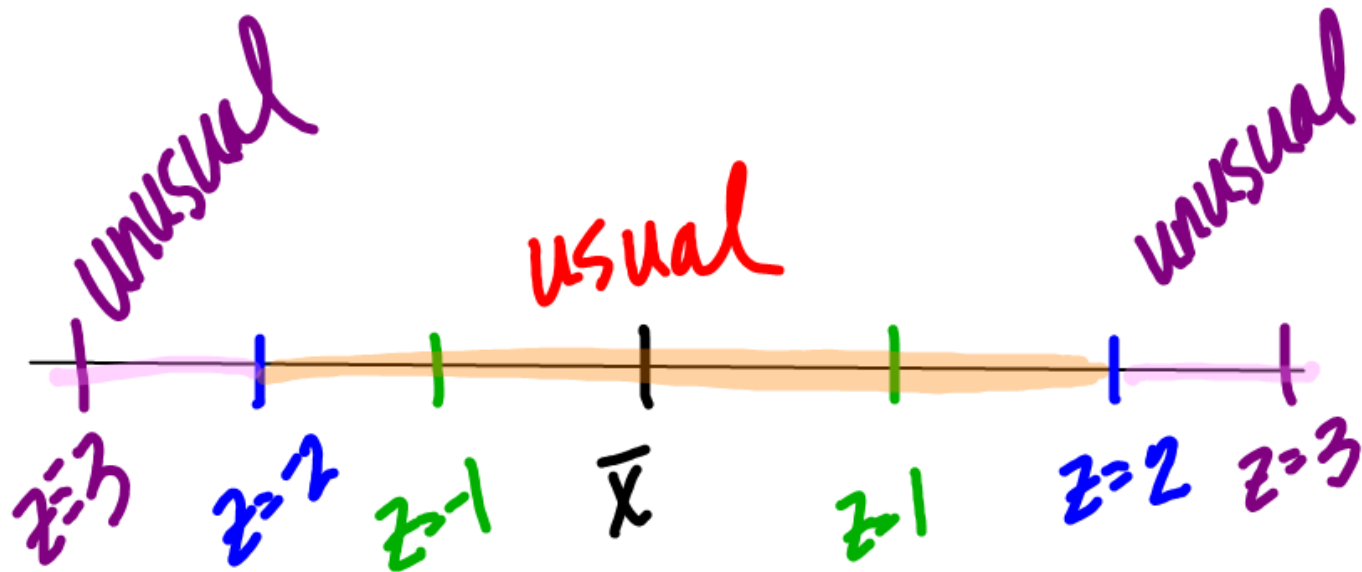
$$\bar{x} \pm 3s$$

68% of data

95% of data

99.7% of data

# 3.-4 Z-Score



$$-2 \leq z \leq 2 \text{ usual}$$

$$x < -2 \text{ or } x > 2 \text{ unusual}$$

Z-score

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

Sample

$$Z = \frac{x - \mu}{\sigma}$$

Population

\$ 7448

$$\bar{x} = 6412.2$$

\$ 4911

$$s = 1926.8$$

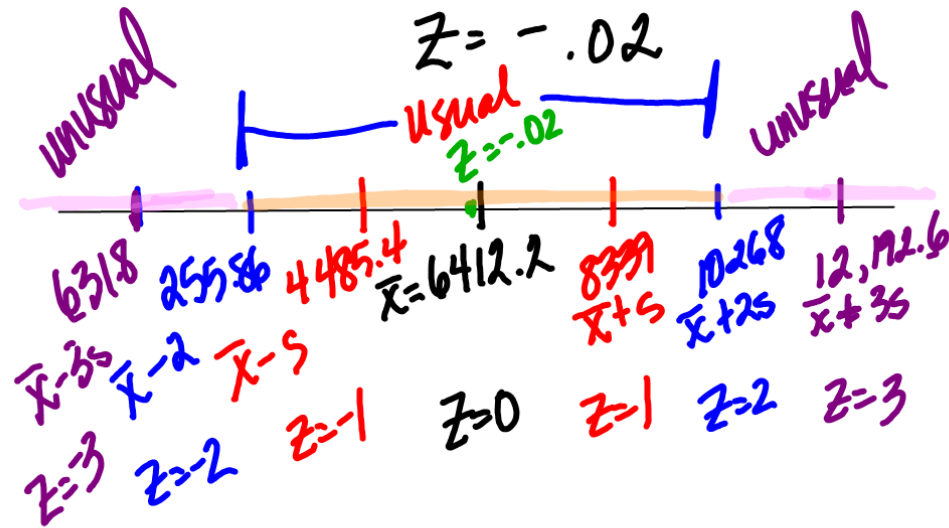
\$ 9051

\$ 6374

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

\$ 4277

$$z = \frac{6374 - 6412.2}{1926.8}$$



$$5. \quad X = 61$$

$$\bar{X} = 35.8$$

$$S = 11.3$$

$$a) \quad 25.2$$

