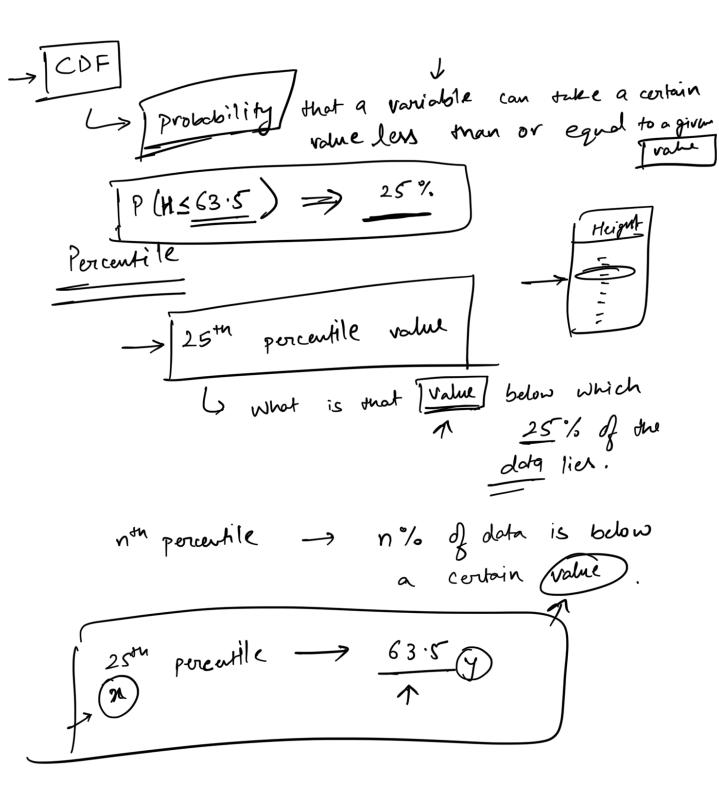
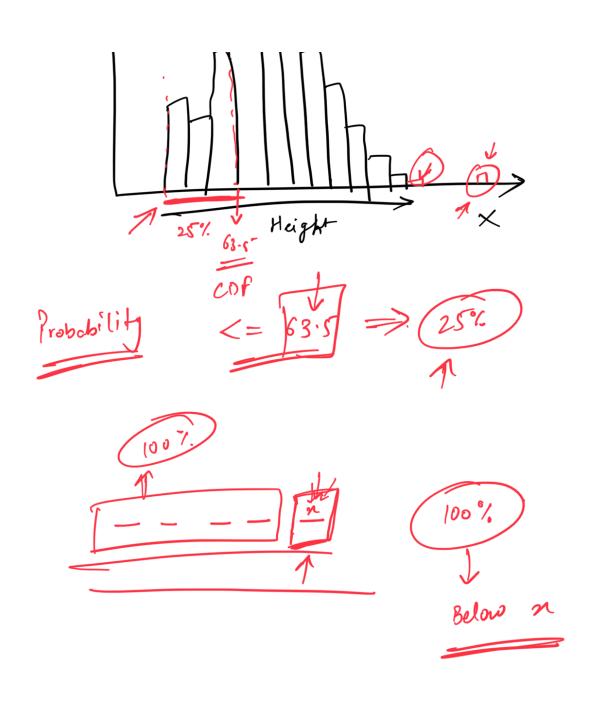
Gaussian Distribution



bier. The



Gramsian (Aka Normal Distribution)

Standard Deviation -> Spread of the data

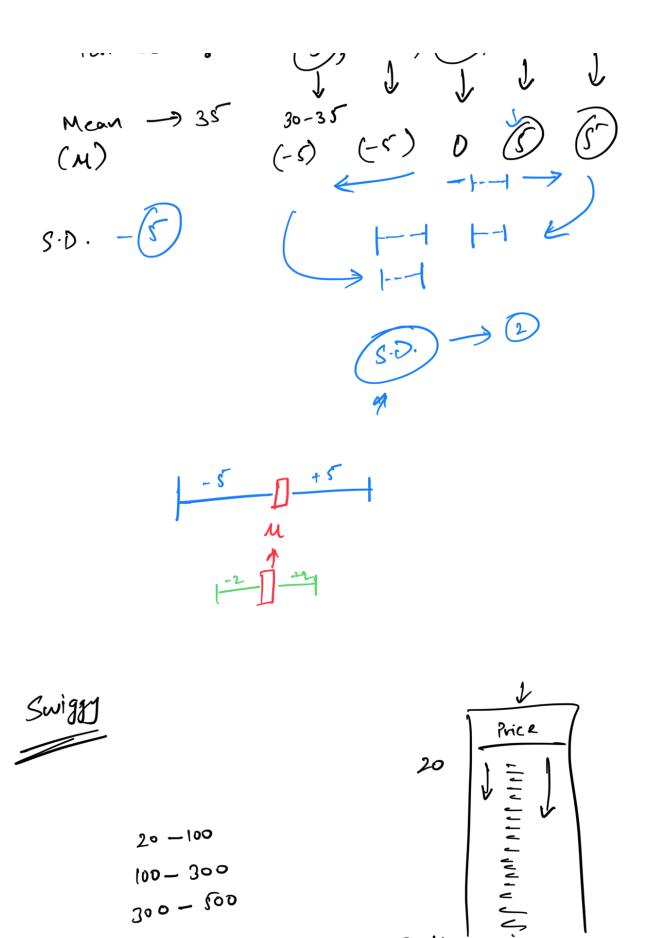
Gramsian (Aka Normal Distribution)

Standard Deviation -> Spread of the data

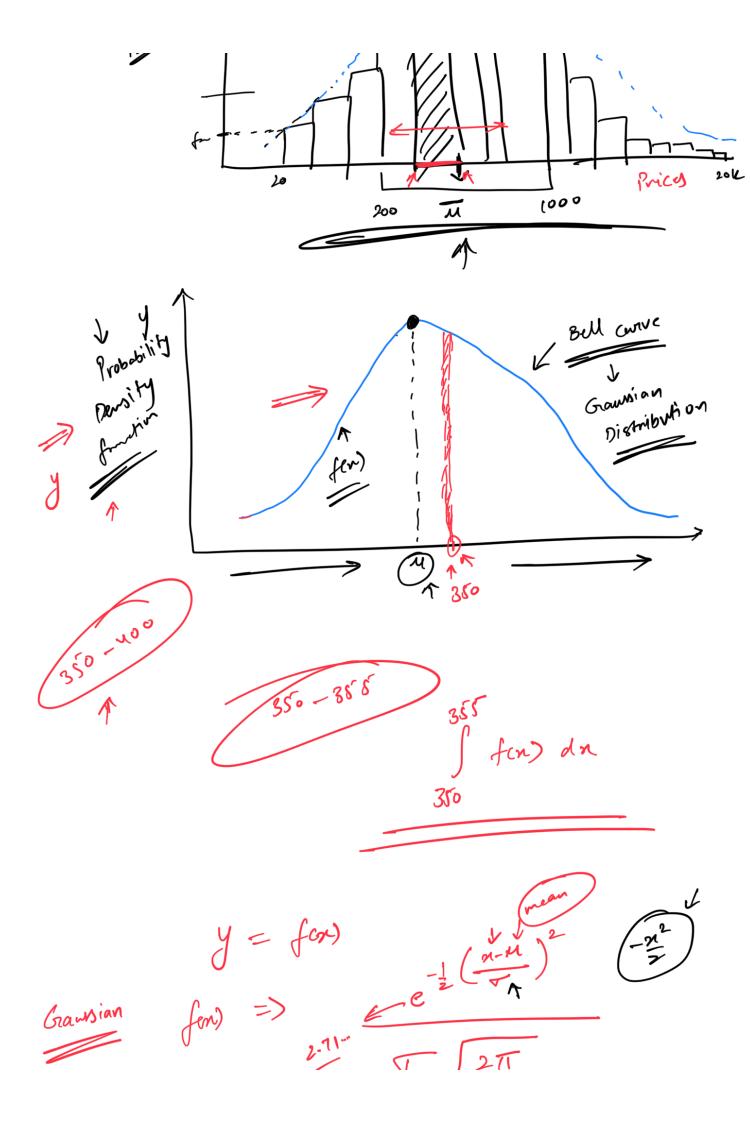
How for a robe is from

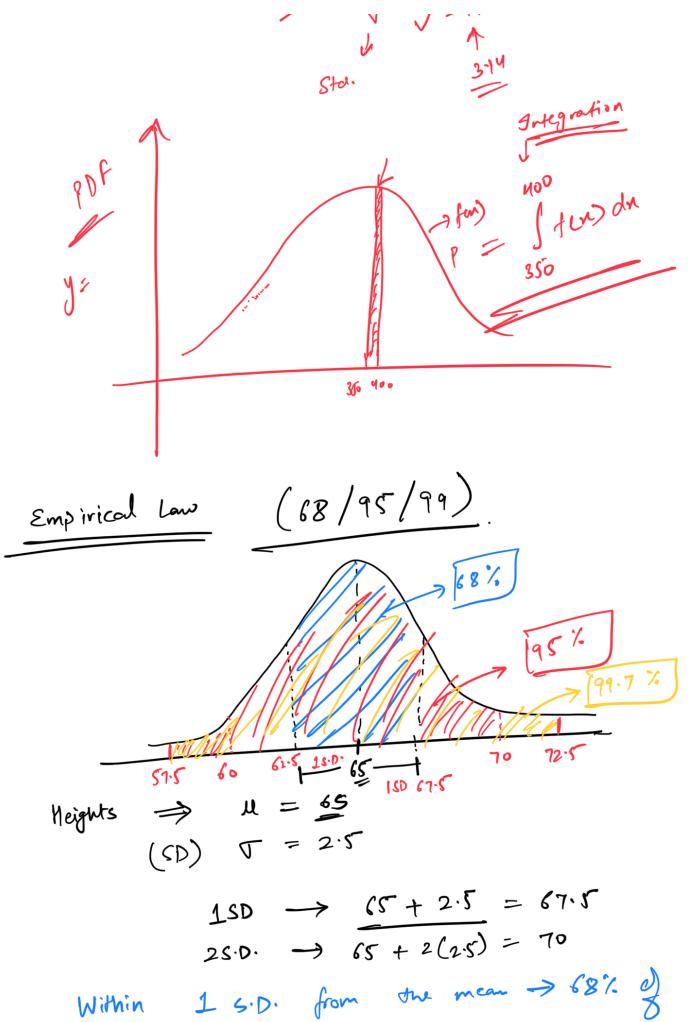
the mean of the data!

Trat Scores: (30), 30, (35), 40, 40









the data is cophured.

Percentage of people with height?

(1) Within
$$1 \text{ s.o.} \quad \begin{bmatrix} 62.5 - 67.5 \end{bmatrix} \rightarrow 68\%$$
.

11 2 11 $\begin{bmatrix} 60 - 70\end{bmatrix} \rightarrow 95\%$.

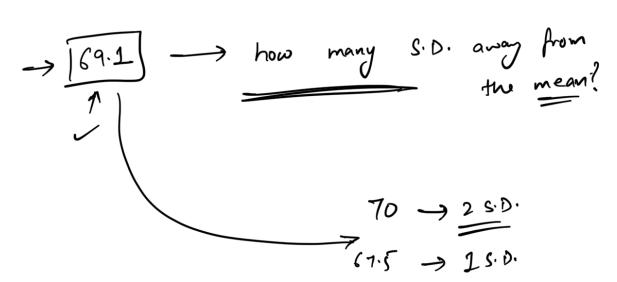
11 3 11 $\begin{bmatrix} 57.5 - 72.5\end{bmatrix} \rightarrow 99.7\%$.

∅:

$$\frac{(60-65)}{\sqrt{95}}, \frac{(65,72.5)}{\sqrt{99.7}} = 49.85$$



$$M = 65 \int_{-\infty}^{\infty} \int_$$



$$69.1$$
 is 'Z' S.D. away from mean.
 $567.5^{-} = 65 + 1(sD)$
 $70 = (5 + 2(s.D.))$
Similarly,

$$\frac{69.1}{69.1} = \frac{65}{65} + (2)(5.0.)$$

$$69.1 = 65 + 2(2.5)$$

$$z = \frac{69.1 - 65}{2.5}$$

.

Z - Score

$$Z = \frac{n - \mu}{\nabla}$$

n -> noi for which we need to cal. z-score

 $M \rightarrow mea$ $V \rightarrow 5.0.$

Z- Seore -> no of S.D. for any from the mean for any data point.

Next -> What fraction /1. of people are shorter man 69.1 inches?

Scipy 1-(4 S-D

$$Z - Score = 1.5$$

$$M = 50$$

$$T = 2$$

$$Z = n - M$$

$$(Z \times F) + M = \chi$$

$$\chi = (1.5 \times 2) + 50$$

$$= 53$$

Q. a1 1/ sense are shorter than me.

