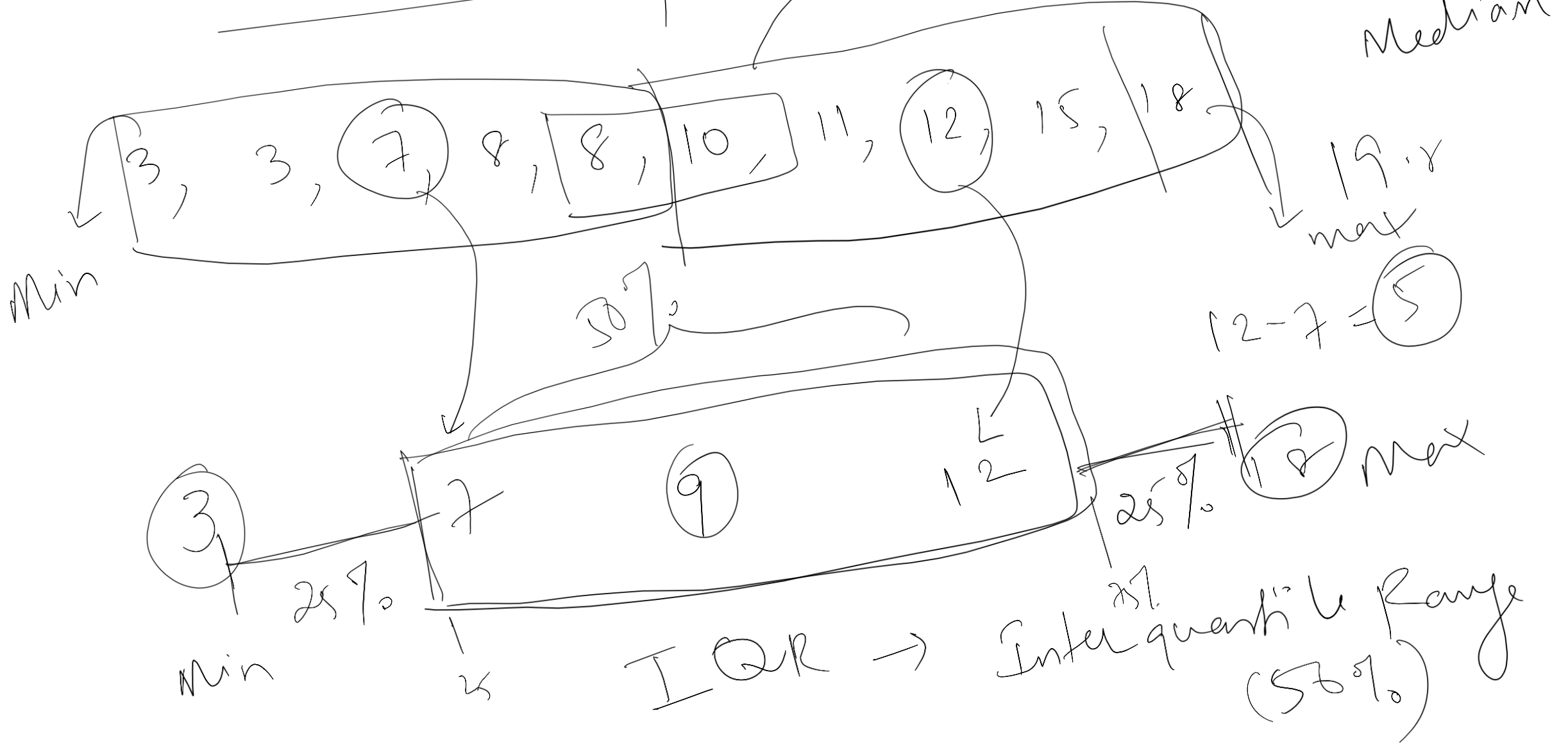
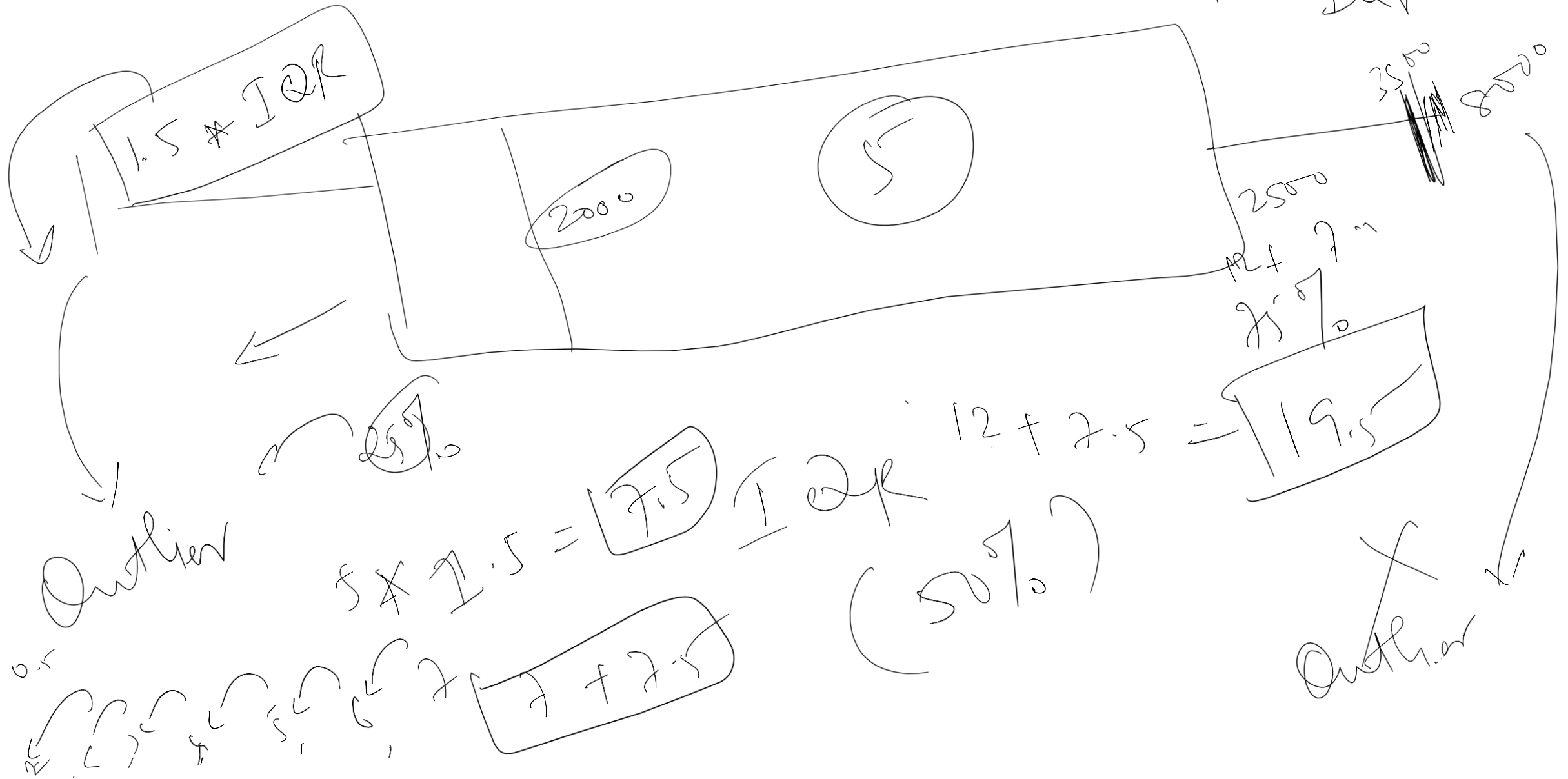


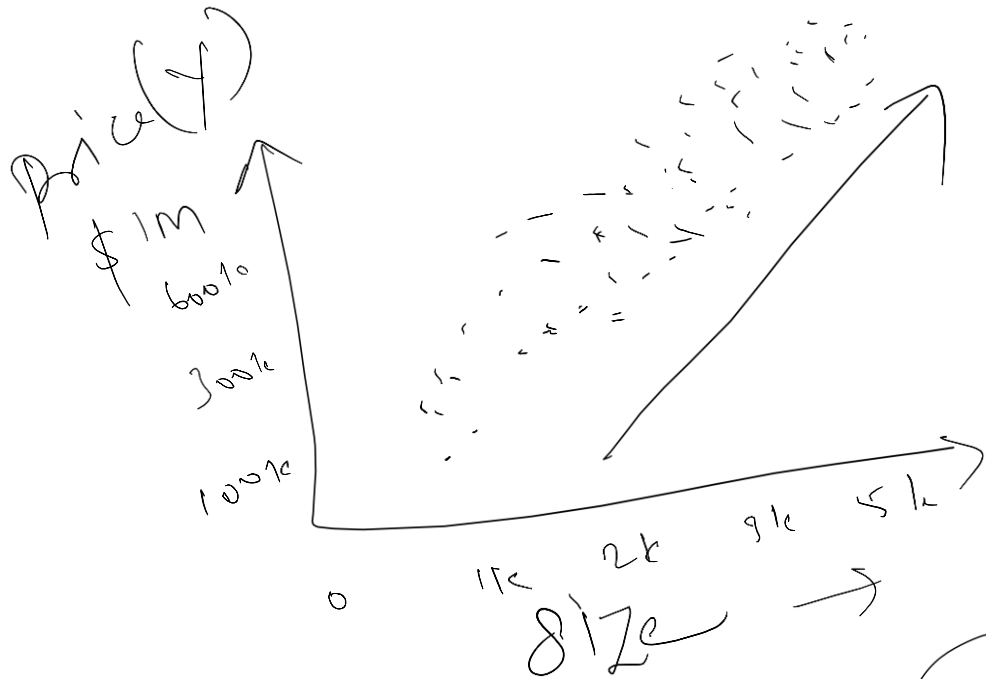
Box & Whisker plot :-

12/15

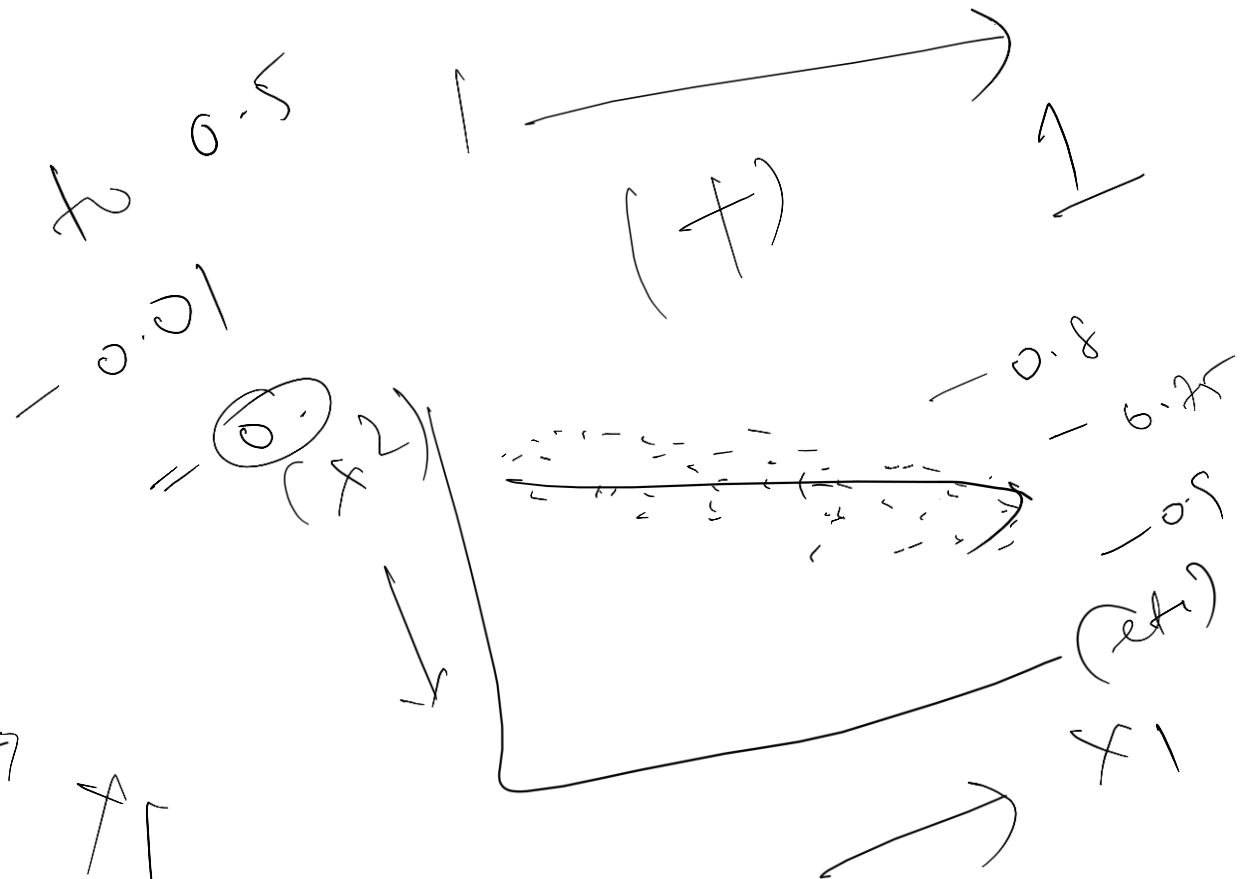
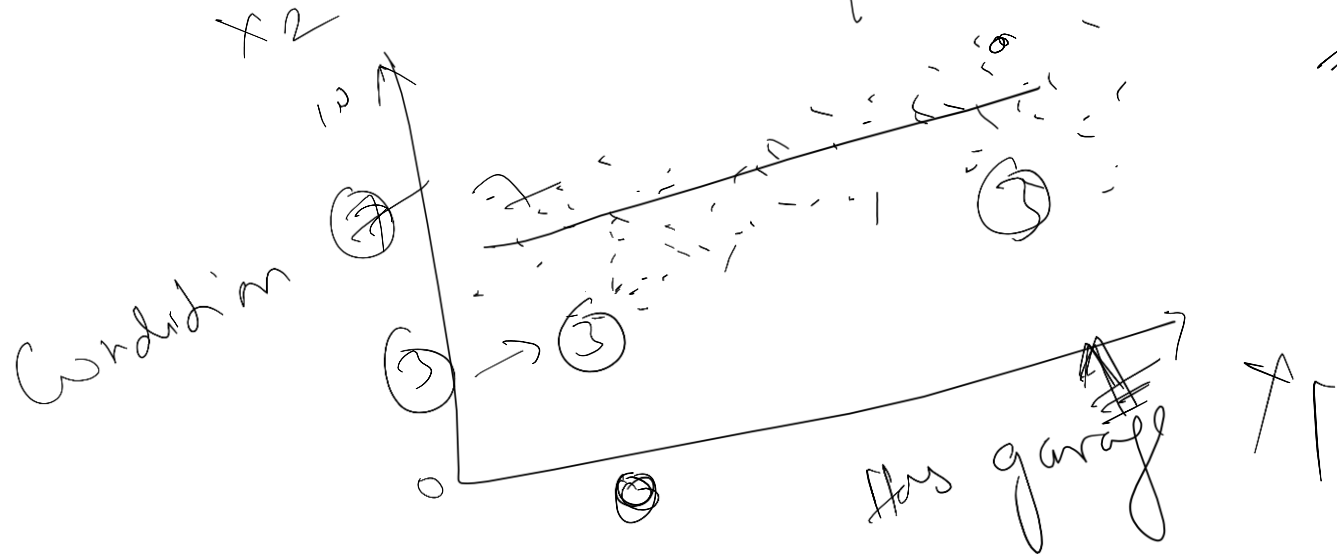


Median = 2000 ft 75% - 25% = IQR

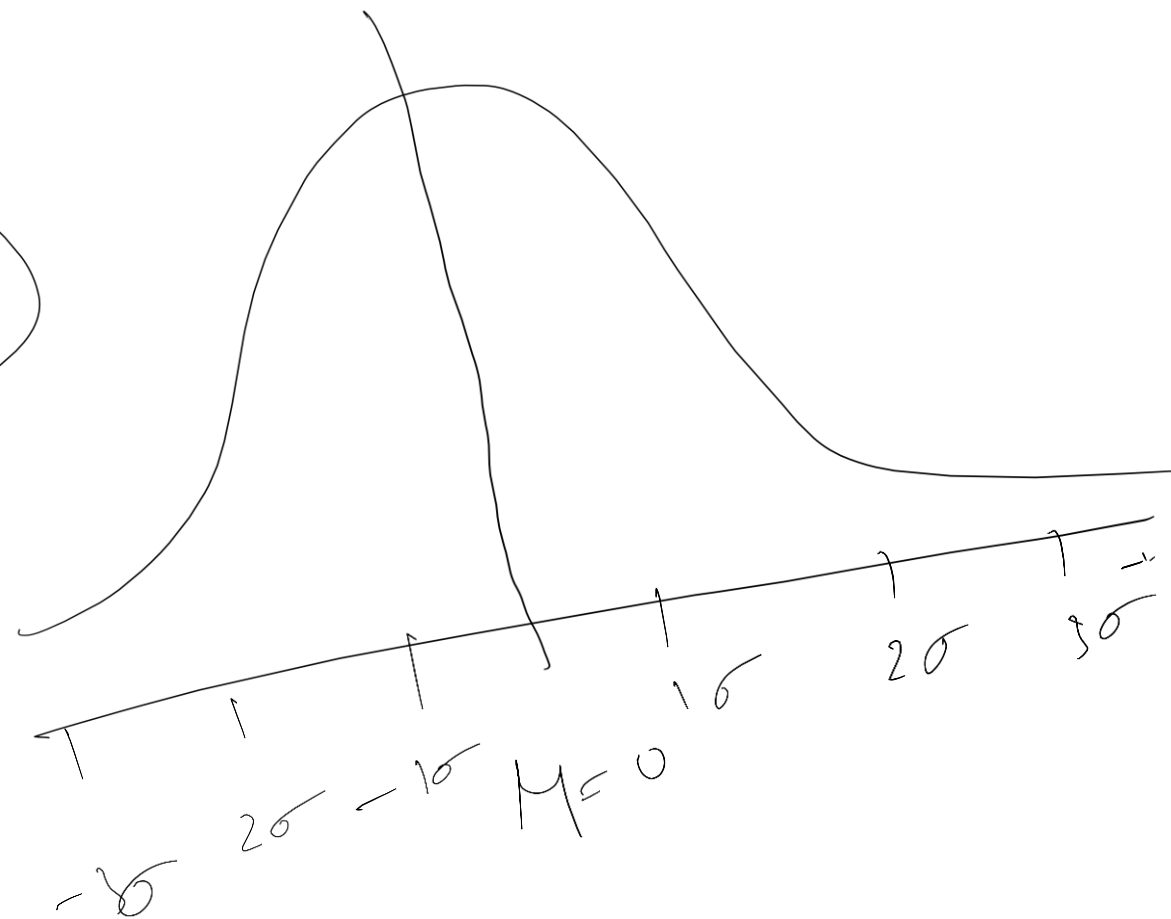
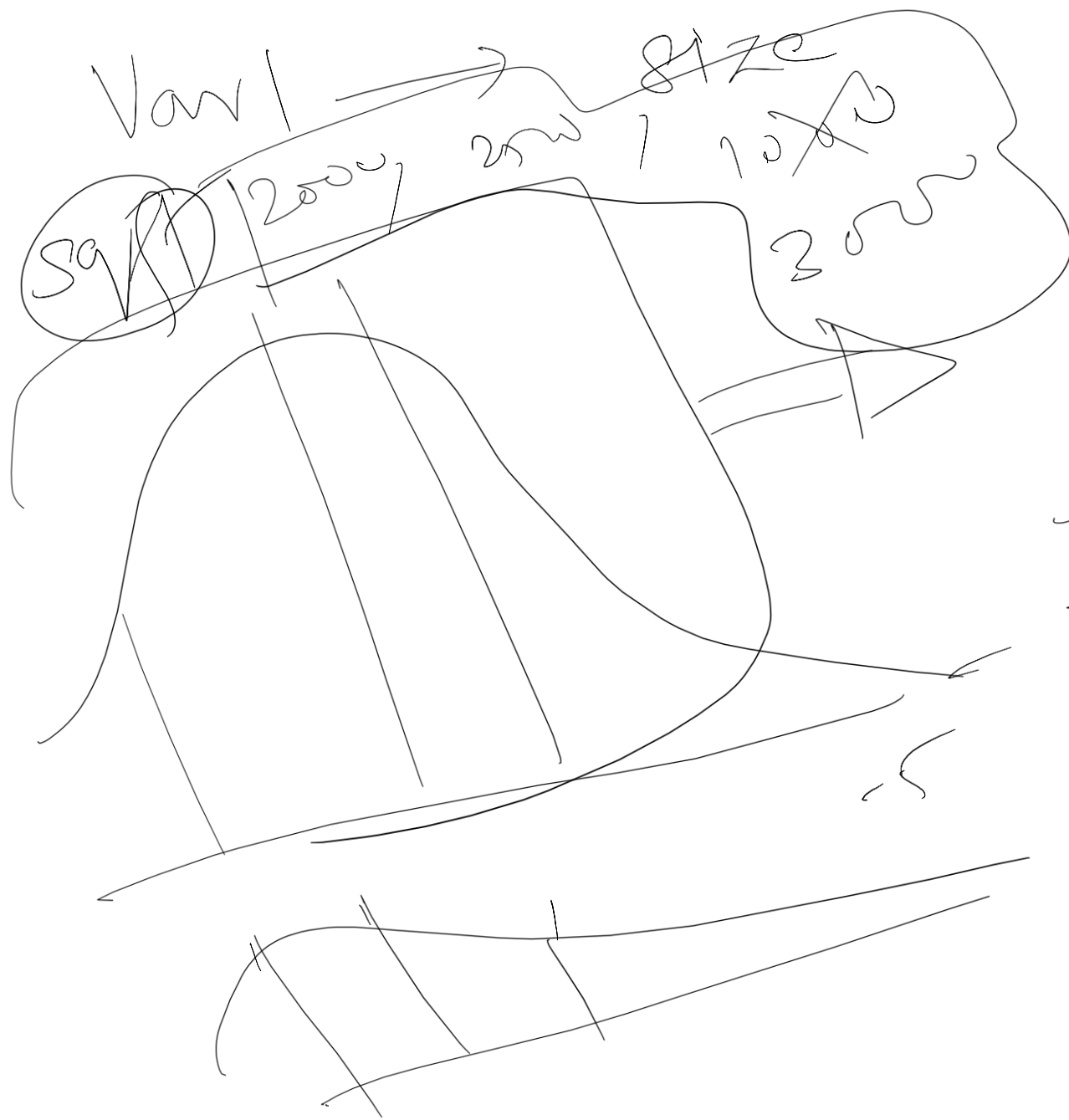




Corr b/w size & price = 0.95



(Let's get back at
7.46 pm L.S.↑)



Spice

Spice



→ y-test

random state = ~~99~~ 99

↳ The model has its own calculation in picking up the rows for train & test split

1, 2, 4, 5, 7, 9, 10

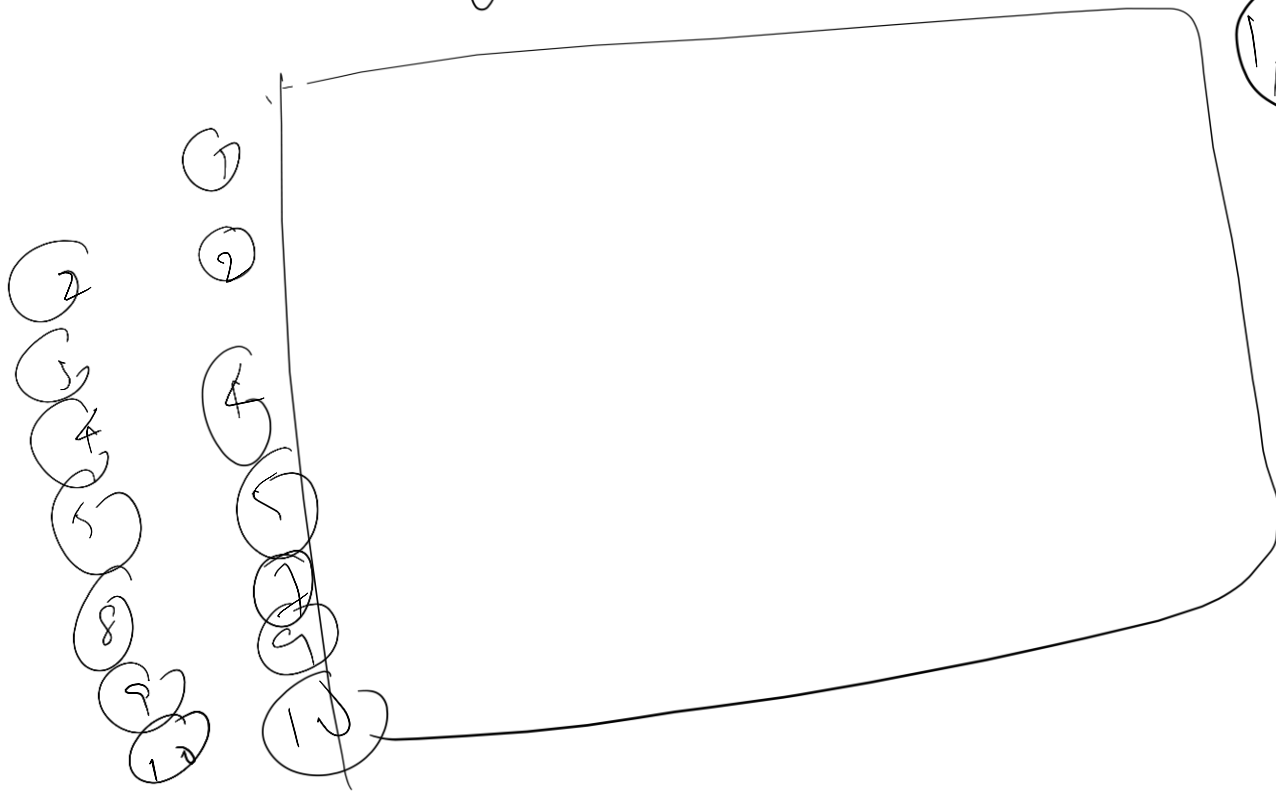
$n = 10$
(0.3)

70

Train
7

Test

3
3, 6, 8



$$y = mx + b$$

intercept

price

slope / coeff

model (price)

```
graph TD; Eq["y = mx + b"] --> Intercept["intercept"]; Eq --> Slope["slope / coeff"]; Eq --> Price["price"]; Eq --> Model["model (price)"];
```

$$y = m_1 x_1 + m_2 x_2 + m_3 x_3 \dots m_n x_n + b$$

$y \rightarrow$ Price

$x_1, x_2 \dots \rightarrow \sum_{x_i}^n \rightarrow$ Size, Bedr, ...

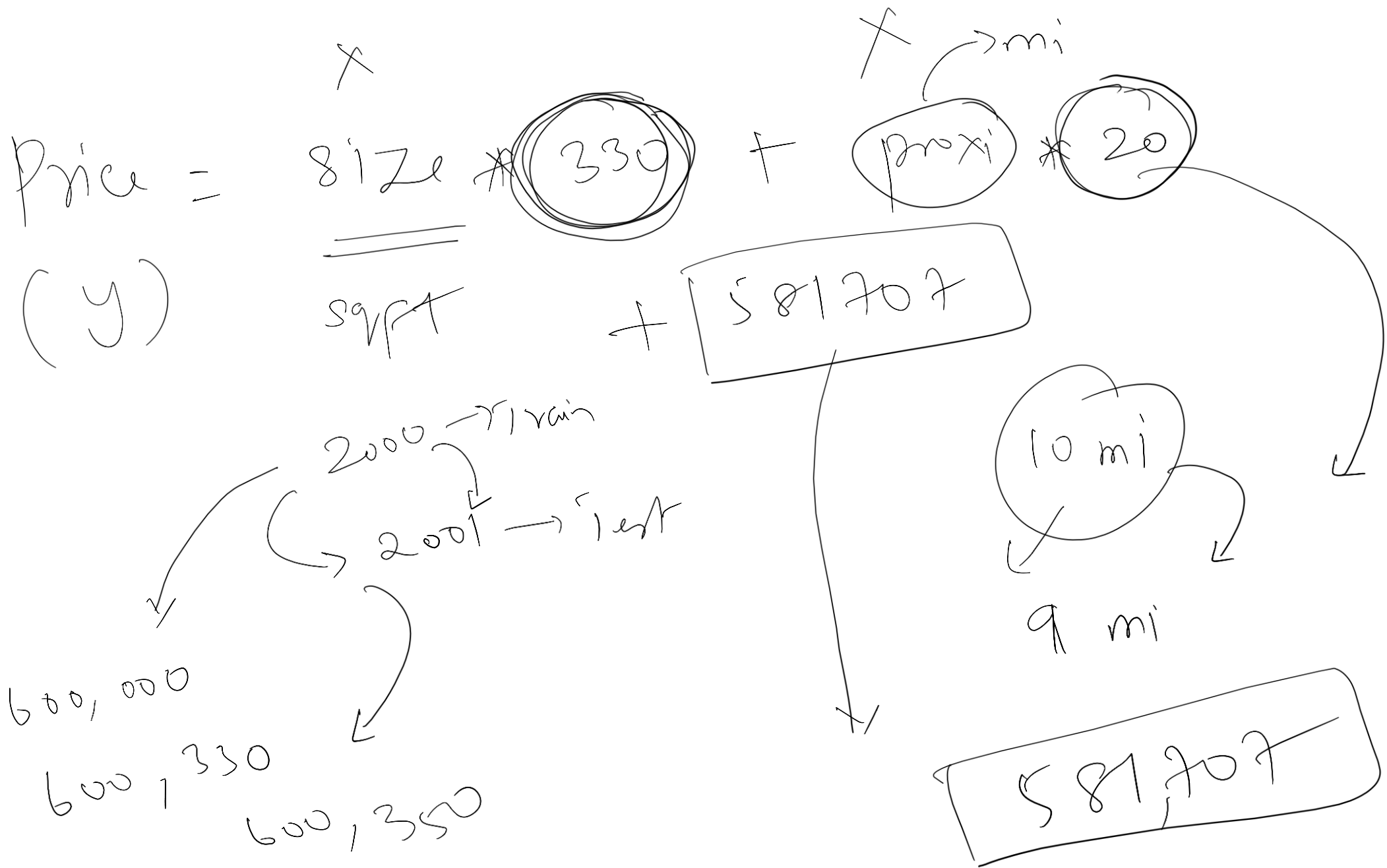
$b \rightarrow$ Intercept

$m_1, m_2, m_3 \dots m_n \rightarrow$ 'coeff'

$$\text{Price} = (74553 * \text{Size}) + (31801 * \text{Bedroom}) \\ + (23667 * \text{Bathroom})$$

$$+ (\text{Neighborhood} * -0.000017) + 581707$$

Price



$$\frac{\sum (y - \hat{y})^2}{n}$$

$$= MSE$$

100, 201
90, 005
160, 000

MAPE \rightarrow < 15
 < 20

$$\sum |y - \hat{y}|$$

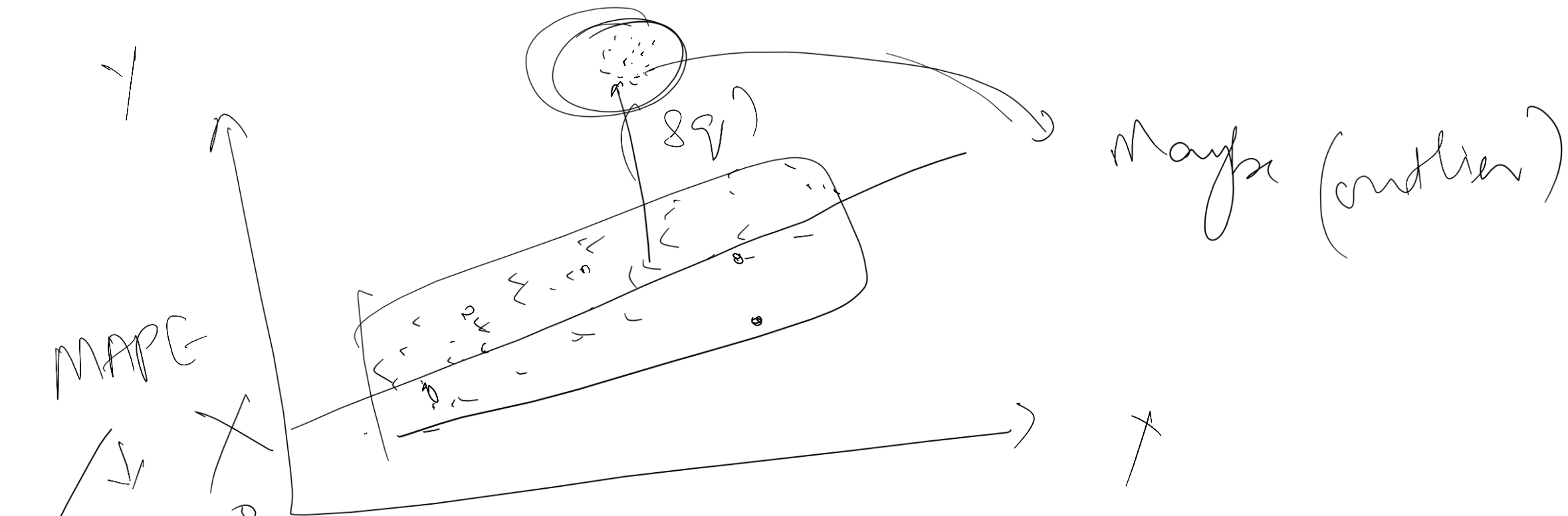
$$= MAE$$

100

MAPE \rightarrow

$$\frac{\sum (|y - \hat{y}| / y)}{n} * 100$$

MAPE \rightarrow 70,80



MAPE

✓
① → 100

MAE

→

'Magnify'

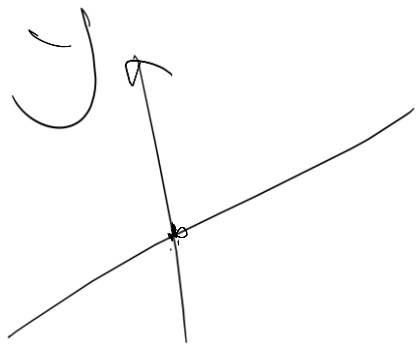
= 1 layer
6 digit

MAE

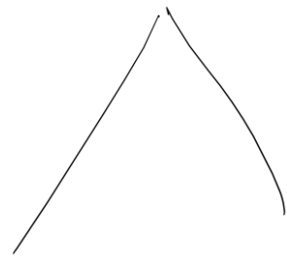
→

|| →

4 digit



$$\frac{\partial}{\partial m}$$



$$\frac{\partial}{\partial b}$$



Intercept

Slope / derivative / Coeff