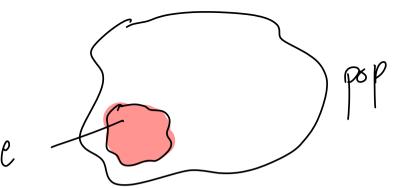
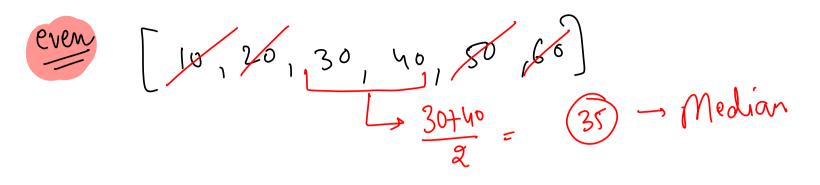
Statistics
L. Statistic - A number that dearber my data.

-> Means, Me dian) Gentral Tendency, Vancour, Std. merential Statistics Hug. Higher 5'7".

EXIT POLLS



Glasdoor/Ambrition Box DSI Salaries at Grouple Mean= 35 Sal_lubr = [30,30,35,40,40] Median= 35 Mode = 30,40 Mean = Sum (Sal-lahs) / lin (Sal-lahhs) = 35 Median= 35 Stauty [100] Sal-lahs [30,30,35,40,40,100]-Media=37.5 "Medians ou more robust outlies".



00dd [10, 25, 30, 40, 80] median

There are 4 people whose average age is 24.

We know the age of three people: 20, 22, and 28.

What is the median age of these 4 people?

59 users have participated

$$A_{1} + A_{2} + A_{3} + A_{4} = 24$$
 $20 + 22 + 28 + A_{4} = 24$
 $70 + A_{4} = 9$
 $A_{4} = 26$

Mode: Obseration with higher frag.
90,80,90,70,90,75,90 y Mode > 90 90-4 80-1 Unimodal 90,90,90 70-1 75-1 75,80,75 90,90,70,80,70,75 \ - Modes = 90,70

90-2 80-1

70-2 75-1 75, 70,42 70,42,70 90,70,80,75 Y Nomodes 90-3 42-2 75-3 90-1 80-1 70 - 3 70-1 75-1 80 - 1

Kangl: "Manvalue" - "Min value" Schwag - "aggressive" Dravid - "The guar wall" 10, 28, 40, 45,50,52,68,70,100 0,0,0,1,50,70,100,219 Range = 100 - 10 = 90Meom = 463/9 = 51.44Range: 219-0= 219

Mean: 440/8 = 55

Median: 50

Mode: 0

Mode: No mode.

TQR
$$\rightarrow$$
 Mtu Quattu Range = Q₃-Q₁

Median Q₂

median Q₃

min Q₁

Q₂

Q₃

man

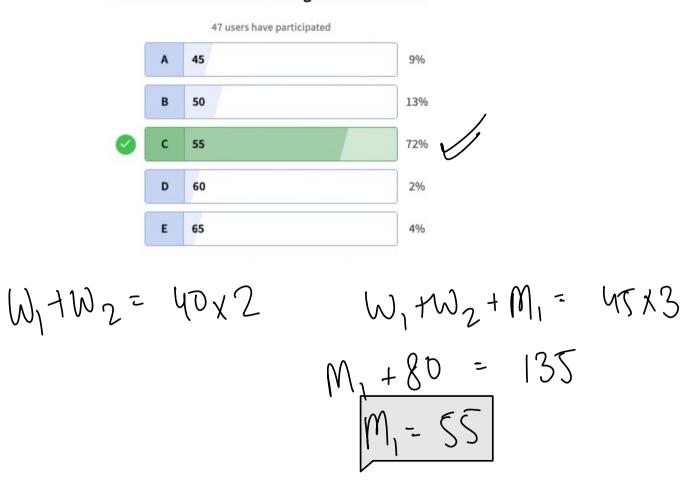
TQR = Q₃-Q₁ = 71-68=3

1 = Q₁ - 1.5 (IQR) = 68-(1.5)3=63.5

$$L = Q_1 - 1.5(IQR) = 68 - (1.5)3 = 63.5$$

$$U = Q_3 + 1.5(IQR) = 71 + 4.5 = 75.5$$

The mean weight of 2 children in a family is 40 Kgs. If the weight of the mother is included, the mean becomes 45. What is the weight of the mother?





In a survey about favorite animals, 30 people said cat, 40 people said dog, 20 people said cow. What is the mode of favorite animals in this data?

A Cat 4%

B Dog 96%

C Cow 0%

Quantile. A value which tells us "q" observation au less than q value.

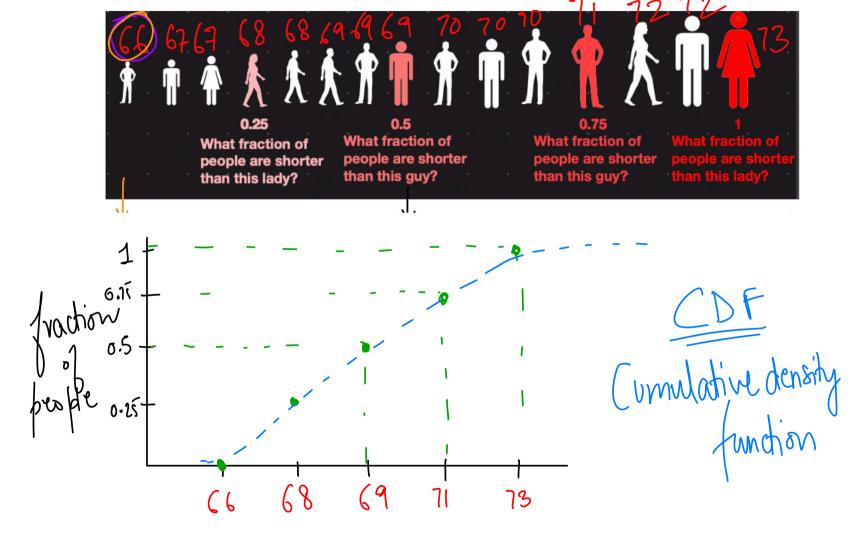
Quartile: Quantile when Q is Quarte - Q=4

Q = 0.25 x lm(data) - 1st quartile

0.50 x lm(data) - 2nquartile

Perantites: A value which tells us p? observations Lyalue & all less than this value. 10th 16%

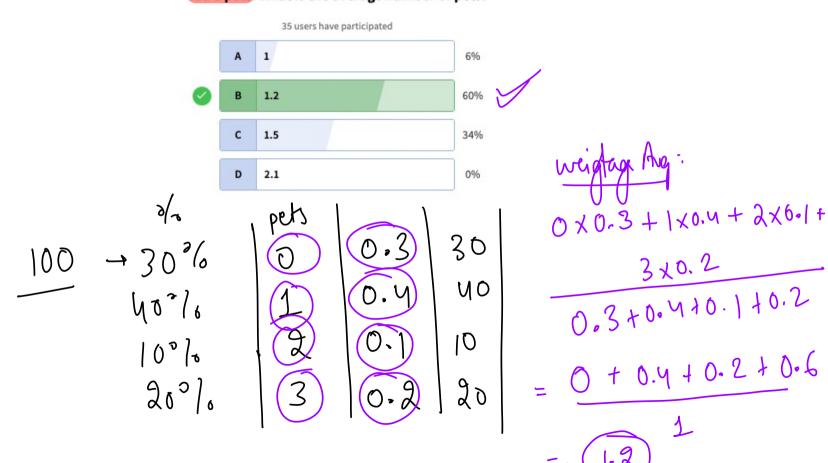




Variable PDF + Prob. Durity
function DISCRETE

PMF -> Prob Mass
function KOE)

A survey of the number of pets in a town saw that 30% people had 0 pets, 40% had 1 pet, 10% had 2 pets, 20% had 3 pets. What is the average number of pets?



Avg =
$$0 + 40 + 20 + 60 = 0.2$$

2.

Original Salaries: 30, 32, 35, 35, 38 LPA

Which metrics will remain unchanged under the effect of addition of 5 LPA bonus to each of the above salary?

39 users have participated



A		Mean, Median	21%
E	3	Median, Mode	21%
		Range, IQR	38%
)	Mode, Range	21%
(22		Mean = 34	(FS)

3.

Original Salaries : 30, 32, 35, 35, 38 LPA

Which metrics will remain unchanged under the effect of multiplication by 5 to each of the above salary?

