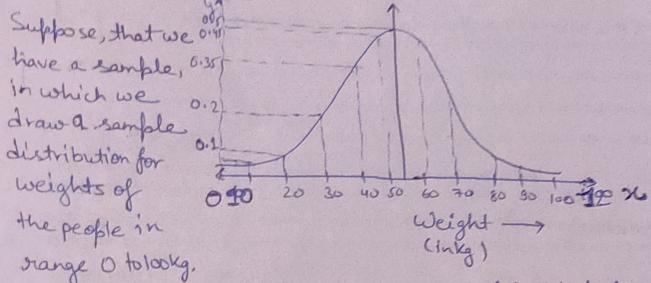
* Perobability Density Function: Probability density function, in statistics is a function whose integral is calculated to find probabilities associated with a continuous random variable.



Then PDF can help us to find what 1/0 of people in the sample lie with in this range,

The probability of people distributed around entire sample coming in some weight will always be equal to 1, i.e., area

under the curve will always be 1.

Suppose, we look at graph, and say probability of people having value of weight less than 20 kg, then we extend the line towards y-axis and see the corresponding probability, and it says on 1 that means 10% of people in the population will have weight Similarly 50% of people in the population has weight within

→ PDF is really useful function when it comes to understanding the statistical behaviour of a continuous data.

* Cumulative Density Function (CDF): The cumulative distribution function for a mandom variable at X gives the probability that the random variable X is less than or equal to that number X. Here, the y-axis, shows the cumulative sum. Suppose, if we want 0-35 to find out no of people weight -> theise having weight less than 70, we can directly see graph and tell it is 80%. -> CDF can be used for both discrete and continuous reviables. of the population. * Z-score: A z-score gives us an idea of how far from the mean a data point is. But more technically, It's a measure of how many standard deviations below or above the population mean a raw score is. Suppose, we want to find out We can convert a of people living regular normal/ beyond 1.50 of gaussian distribution meanue can use the z-score into a standard the find the value normal distribution using the Z-score. -30 -2000 p +0 1 +20 +30 of people. Z=x-p * We can make use of the Z-score table to find the amount of people that lie In a certain region using the z-score.