Probabability 67 Chances of event occurring. Pobability (P) = no. of favorable out come. Tossing a Coin = 9H,T = 2 Total 2) Thorowing a Dice = 3 1,2,3,4,5,6} P(1)=1/6 P(2)=1/6 P(3)=1/6 P(4)=1/6 P(5)=1/6 P(6)=1/6. total autome = {36} = outcome = {36} = outcome $= \begin{cases} 21,13 \\ (2,1) \end{cases} \begin{cases} 21,23 \\ (2,2) \end{cases} \begin{cases} (1,4) \\ (1,5) \\ (1,6) \end{cases}$ (6,1) (6,2) (6,3) (6,4) (6,5) (6,6)

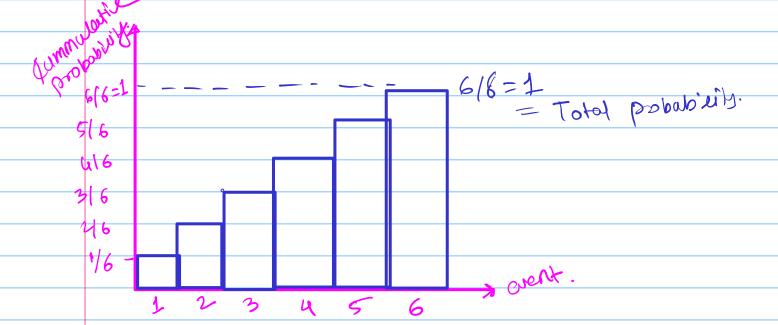
 $p(2)=(1,1)=\frac{1}{36} \rightarrow \text{Total chance}$. $P(11) = (16.5)(5/6) = \frac{2}{36}$ $\rho(3) = (1/2)(2/1) = 2/36$ $p(12) = (6,6) = \sqrt{36}$ P(21)=(1/3)(3/1)(2/2)=3/36 Probability Dismibution It is a ust of all possible outcome of Random Voriable along with their Corresponding 16 16 16 16 one Pobability Distribution Function: It is a mathematical expression that describe the probability of different possible outcome for $\sqrt{=}(x) = \int_{0}^{\infty} (x)^{2} (x)^{3} (4) (x)^{6}$

Two Type of Probability DESTibution. Discrete Dismibution Cp = No - of student in class. (2) Continuous Distribution. ex: height, Distance, Eleight, BP, Time. Discrete Dismibuling 1) Probability Mars Fundtag. (PMF) 2 Cammulative Mass Function. (CMF) (ontinous Offibulian. 1 probability Don'ty function. (PDF) 2 (ummulative Drombation function. (CDF) A- Probablisty Mass Function. (PMF) It is a Statistical term that describes the probability Distribution of a discrete random vonable P(1)=1/6 P(2)=1/6 P(3)=1/6 P(4)=1/6 P(5)=1/6 Palodon J. $P(x \le 4) = P(1) + P(2) + P(3) + P(4)$ P(6)=1/6 =1/6+1/6+1/6=4=7/3 Die



of It is another method to describe Commulative probability of Discrete random Voyable.

1,123,58,13,



C. Probability Density Function (PDF)

It is a statistical term that describe the probability Distribution of continuous flandom vonable.

er= Age. in 10th clust.

I would wishbuting

data = [16,17,18,19,20,21 -----

$$16 = 1$$
 $20 = 16$

19=40

