

PROBABILITY DISTRIBUTION



DEFINITION: A probability distribution is a function that assigns probabilities to the possible outcomes of a random variable. The sum of all probabilities must equal 1.

PROBABILITY MASS FUNCTION (PMF)

Let X be a discrete random variable. The probability mass function (PMF) is defined as $P(X=x)$.

Outcome (x)	Probability ($P(X=x)$)	Cumulative Probability ($P(X \leq x)$)
1	0.2	0.2
2	0.3	0.5
3	0.1	0.6
4	0.4	1.0

STATISTICAL ANALYSIS



QUESTION 1



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Date	Description
1/1/2020	Initial deposit of \$10,000.00
1/15/2020	Interest earned \$100.00
2/1/2020	Withdrawal of \$500.00
2/15/2020	Interest earned \$100.00
3/1/2020	Deposit of \$2,000.00
3/15/2020	Interest earned \$100.00