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determine if two events are mutually exclusive and or independent apply the or rule to calculate the probability that either of two events occurs apply the and rule to calculate the probability that both of two events occurs many probabilities in real life involve more than one event two events are independent events if the occurrence of one event has no effect on the probability of the occurrence of the other event multiplication rule for and probabilities independent events if events a and b are independent events then p a and b p a p b p a and b p a p b you ve experienced probability when you ve flipped a coin rolled some dice or looked at a weather forecast go deeper with your understanding of probability as you learn about theoretical experimental and compound probability and investigate permutations combinations and more probability is simply how likely something is to happen whenever we re unsure about the outcome of an event we can talk about the probabilities of certain outcomes how likely they are the analysis of events governed by probability is called statistics this section will take a look at probability involving the concepts of and and or it will be observed that there is a working relationship between set theory and probability this course provides an elementary introduction to probability and statistics with applications topics include basic combinatorics random variables probability distributions bayesian inference hypothesis testing confidence intervals and linear regression when we calculate the probability for compound events connected by the word or we need to be careful not to count the same thing twice if we want the probability of drawing a red card or a 5 we cannot count the red 5s twice if you re curious about the mathematical ins and outs of probability you ve come to the right unit here we ll take a deep dive into the many ways we can calculate the likelihood of different outcomes this is a very nice introduction book to probability theory without using axiomatic and or set theoretic coverage of the probability it contains many interesting examples to demonstrate how to apply a probabilistic modeling or statistical procedure to study the real world phenomena the role of probability theory is to provide a framework for analyzing phenomena with uncertain outcomes image by john tsitsiklis the tools of probability theory and of the related field of statistical inference are the keys for being able to analyze and make sense of data probability how likely something is to happen many events can t be predicted with total certainty the best we can say is how likely they are to happen using the idea of probability definitions and notation

before discussing the rules of probability we state the following definitions two events are mutually exclusive or disjoint if they cannot occur at the same time the probability that event a occurs given that event b has occurred is called a conditional probability the probability of a and b means that we want to know the probability of two events happening at the same time there s a couple of different formulas depending on if you have dependent events or independent events formula for the probability of a and b independent events p a and b p a p b a probability is a number that represents the likelihood of an uncertain event probabilities are always between 0 and 1 inclusive the larger the probability the more likely the event is to happen a probability of 0 means that the event is impossible it will never happen probability is all about how likely is an event to happen for a random experiment with sample space s the probability of happening of an event a is calculated by the probability formula n a n s quiz unit test if you re curious about the mathematical ins and outs of probability you ve come to the right unit here we ll take a deep dive into the many ways we can calculate the likelihood of different outcomes define probability including impossible and certain events calculate basic theoretical probabilities calculate basic empirical probabilities distinguish among theoretical empirical and subjective probability calculate the probability of the complement of an event it all comes down to this probability number of a favourable outcome total number of outcomes p n e n s where p is the probability e is the event and s is the sample space now let s looks at some very common examples example 1 probability of getting an even number on rolling a dice once solution sample space s 1 2 3 4 5 6 maths math article probability means possibility it is a branch of mathematics that deals with the occurrence of a random event the value is expressed from zero to one probability has been introduced in maths to predict how likely events are to happen the meaning of probability is basically the extent to which something is likely to happen in probability theory there exists a fundamental rule that relates to the marginal probability and the conditional probability which is called the formula or the law of total probability through several distinct events it expresses the total probability of an event

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probability number of a favourable outcome total number of outcomes p n e n s where p is the probability e is the event and s is the sample space now let s looks at some very common examples example 1 probability of getting an even number on

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