Ebook free Algebra 1 probability problems (2023)

probability tells us how often some event will happen after many repeated trials 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 number of ways it can happen 1 there is only 1 face with a 4 on it total number of outcomes 6 there are 6 faces altogether so the probability 1 6 example there are 5 marbles in a bag 4 are blue and 1 is red probabilities range from 0 to 1 and can be written as fractions decimals or percentages here you ll find a selection of probability questions of varying difficulty showing the variety you are likely to encounter in middle school and high school including several harder exam style questions the probability that you will draw a green or a red marble is frac 5 15 5 15 16 20 we can also solve this problem by thinking in terms of probability by complement we know that the marble we draw must be blue red green or yellow in other words there is a probability of 1 that we will draw a blue red green or yellow marble what is p call a person from school if necessary round your answer to 2 decimal places learn for free about math art computer programming economics physics chemistry biology medicine finance history and more khan academy is a nonprofit with the mission of providing a free world class education for anyone anywhere the probability of an event is a number between 0 and 1 inclusive if the probability of an event is 0 then the event is impossible on the other hand an event with probability 1 is certain to occur in general the higher the probability of an event the more likely it is that the event will occur example 7 16 we will now look at some examples of probability problems example at a car park there are 100 vehicles 60 of which are cars 30 are vans and the remainder are lorries if every vehicle is equally likely to leave find the probability of a a van leaving first b a lorry leaving first the sum of probabilities of all sample points in a sample space is equal to 1 the following sample problems show how to apply these rules to find 1 the probability of a sample point and 2 the probability of an event there are no outcomes which correspond to a sum equal to 1 hence p e n e n s 0 36 0 b three possible outcomes give a sum equal to 4 e 1 3 2 2 3 1 hence p e n e n s 3 36 1 12 c all possible outcomes e s give a sum less than 13 hence probability practice problems 1 on a six sided die each side has a number between 1 and 6 what is the probability of throwing a 3 or a 4 1 in 6 1 in 3 1 in 2 1 in 4 2 three coins are tossed up in the air one at a time what is the probability that two of them will land heads up and one will land tails up 0 1 8 1 4 3 8 3 probabilities problems with solutions problem 1 throw a dice 3 times what s the probability that we have three 6 displaystyle p a frac 1 6 3 p a 631 displaystyle p a frac 1 6 2 p a 621 displaystyle p a frac 1 6 p a 61 displaystyle p a frac 1 3 p a 31 problem 2 1 twenty problems in probability this section is a selection of famous probability puzzles job interview questions most high tech companies ask their applicants math questions and math competition problems some problems are easy some are very hard but each is interesting in some way almost all problems probability event favorable outcomes total outcomes x n probability is used to predict the outcomes for the tossing of coins rolling of dice or drawing a card from a pack of playing cards the probability is classified into two types theoretical probability experimental probability probability problems sparknotes problems previous next problem if a dice is rolled once what is the probability that it will show an even number an odd number problem if a dice is rolled once what is the probability that it will show a prime number 1 is not prime 1 which of the following is an impossible event choosing an odd number from 1 to 10 getting an even number after rolling a single 6 sided die choosing a white marble from a jar of 25 quiz unit test about this unit 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 definition formula examples tree types events equally likely events complementary events probability theory probability density function terms solved problems video lecture practice problems faqs probability definition in math probability is a measure of the likelihood of an event to occur practice questions previous direct and inverse proportion practice questions next reverse percentages practice questions the corbettmaths practice questions on probability two heads 105 times one head 275 times no head 120 times find the probability of each event to occur solution let us say the events of getting two heads one head and no head by e 1 e 2 and e 3 respectively p e 1 105 500 0 21 p e 2 275 500 0 55 p e 3 120 500 0 24

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number of ways it can happen 1 there is only 1 face with a 4 on it total number of outcomes 6 there are 6 faces altogether so the probability 1 6 example there are 5 marbles in a bag 4 are blue and 1 is red

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probabilities range from 0 to 1 and can be written as fractions decimals or percentages here you ll find a selection of probability questions of varying difficulty showing the variety you are likely to encounter in middle school and high school including several harder exam style questions

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the sum of probabilities of all sample points in a sample space is equal to 1 the following sample problems show how to apply these rules to find 1 the probability of a sample point and 2 the probability of an event

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