



Expected value practice worksheet

To continue enjoying our site, we ask you to confirm your identity as a human being. Thank you very much for your cooperation. What is the expected value in the statistics? - When we explore the possible results of an event through an experiment or data that we have collected common sense tells us about an expected result. To make it as simplistic as possible, consider throwing a dime. There are two possible results. In statistics we refer to that expected result as the expected value. This is the weighted average of all possible variables. It is also referred to as the probability distribution. The basic formula that is seen is the product compilation of the probability (P(x)) of the event multiplied by the number of times the event multiplied by the number of times the event occurs (n): (P(x) n). As the situation becomes more complex, so does the formula used. This topic will begin by exploring the simplest form of this calculation and advancing to more complex applications of this ability. This series of lectures and worksheets allows students to discover the best hypothesis value of the probability of all variables present in the problems. Click here to update These are fun. Who doesn't want to calculate their winnings? Homework 1 - Mike bets \$2 on one of the numbers and wins \$80 when the wheel lands on his number. If the wheel stopped at another number, he'd lose his money. Homework 3 - Five thousand tickets are sold for \$25 each for a charity lottery. Tickets must be made at random, and cash prizes must be awarded as follows: 1 \$200 prize, 4 \$160 prizes, and 6 \$90 prizes. What is the expected value of this lottery if you buy 1 ticket? When you actually run the numbers for some of these lottery questions, you wonder why people even buy lottery tickets. Practice 1 - An alphabet wheel has 26 slots spaced equally likely numbered from A to Z. Sherry bets \$2 on one of the numbers and wins \$50. You earn \$50 if it lands on your letter; otherwise you lose your bet. Random variable X allocates \$50 when the wheel land on any other letter. What is the expected value of your winnings? Practice 2 - Random variable X assigns \$100 when the wheel lands on the chosen number and -\$95 to have the wheel land on any other number. What is the expected value of your winnings? I went heavy on the rotating wheel because you will see a lot of this in most exams. Quiz 1 - A hundred tickets are sold for a circus at a cost of \$20 each. Some tickets have cash prizes as part of the promotional campaign. A \$500 prize, three \$250 prizes, and five \$100 prizes. What is the expected value of X? Expected value is a term that we very often come across in our daily lives and even in mathematics. The expected value refers to the result that can be expected value in probability and statistics where it refers to the average value of the theoretical values we obtain after repeating an experiment several times. It is the measure of the central trend. In the case of normal probability distribution, the plurality of the results will be close to the expected value. The main purpose of this value is to summarize all the information contained in a variable. In case of discrete random variable, we can calculate the expected value by multiplying each result with its probability. Resizing the random variable tinges the expected value. The formula of the base baseline value is;  $P(x) \times no$ . Here P(x) is the probability of a result and n is the number of times an event or experiment is in progress. The formula for calculating the expected value of the binomial random variable is; P(x)×X Here P(x) is the probability of success and X is the number of tests. This worksheet calculates the expected value of a discrete random variable from a table, chart, and word problem. Q21: In an experiment, Scarlett throws two right six-sided dice and adds the numbers. The probability distribution of the experiment is shown.x23456789101112p( $\Box$ )136236a436bc536d336236136 Find the values of a, b, c, and d. Aa=336, b=536, c=636, d=436 Da=536, b=336, c=636, d=436 Da=536, c=636, d=436 Da=536, c=636, d=436 Da=536, b=336, c=636, d=436 Da=536, b=336, c=636, d=436 Da=536, b=336, c=636, d=436 Da=536, b=336, c=636, d=436 Da=536, c=636, d=436 Da=536, b=336, b=536, c=636, d=436 Da=536, b=336, b=3 up and the numbers were added together to form a score, the expected value would be 7. Determine which of the following statements is true. ASe if a 3 is rolled up first, the second dao is more likely to land on a 4 than any other number. B If a 4 is rolled first, the second dao is more likely to land on a 3 than any other number. CDo after a large number of tests, the average score would be close to 3. D If we were to throw two dice, we should never expect to get a score other than 7. And After a large number of tests, the average score would be close to 7. Q23: In an experiment, Michael is about to launch four coins. How many times are you expected to give your head? Q24: Let X be a discrete random variable with probability distribution function f(x)=k=x+46.25 and X=-1,1,2,3. Calculate the average of X. Round your to the nearest hundredth. Q25: Two boys and two girls are based on their scores in an exam. Suppose there are no two equal scores and that all possible rankings are equally likely. Let X be the random variable that expresses the highest ranking reached by a girl (for example, X = 2 if the high-level student is a boy and the second-rated student is a girl). Find E(X). E(X).

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