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Probability using a spinner worksheet answers

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The possible outcomes are landing on yellow, blue, green or red. An event is one or more outcomes of an experiment. One event of this experiment is landing on blue. Probability is the measure of how likely an event is. The probability of landing on blue is one fourth. In order to measure probabilities, mathematicians have devised the following formula for finding the probability of an event. Probability Of An Event $P(A) = \frac{\text{The Number Of Ways Event A Can Occur}}{\text{The total number Of Possible Outcomes}}$ The probability of event A is the number of ways event A can occur divided by the total number of possible outcomes. Let's take a look at a slight modification of the problem from the top of the page. Experiment 1: A spinner has 4 equal sectors colored yellow, blue, green and red. After spinning the spinner, what is the probability of landing on each color? The possible outcomes of this experiment are yellow, blue, green, and red. Probabilities: $P(\text{yellow}) = \frac{\text{\# of ways to land on yellow}}{\text{1 total \# of colors}} = \frac{1}{4}$ $P(\text{blue}) = \frac{\text{\# of ways to land on blue}}{\text{1 total \# of colors}} = \frac{1}{4}$ $P(\text{green}) = \frac{\text{\# of ways to land on green}}{\text{1 total \# of colors}} = \frac{1}{4}$ $P(\text{red}) = \frac{\text{\# of ways to land on red}}{\text{1 total \# of colors}} = \frac{1}{4}$ Experiment 2: A single 6-sided die is rolled. What is the probability of each outcome? What is the probability of rolling an even number? of rolling an odd number? Outcomes: The possible outcomes of this experiment are 1, 2, 3, 4, 5 and 6. Probabilities: $P(1) = \frac{\text{\# of ways to roll a 1}}{\text{1 total \# of sides}} = \frac{1}{6}$ $P(2) = \frac{\text{\# of ways to roll a 2}}{\text{1 total \# of sides}} = \frac{1}{6}$ $P(3) = \frac{\text{\# of ways to roll a 3}}{\text{1 total \# of sides}} = \frac{1}{6}$ $P(4) = \frac{\text{\# of ways to roll a 4}}{\text{1 total \# of sides}} = \frac{1}{6}$ $P(5) = \frac{\text{\# of ways to roll a 5}}{\text{1 total \# of sides}} = \frac{1}{6}$ $P(6) = \frac{\text{\# of ways to roll a 6}}{\text{1 total \# of sides}} = \frac{1}{6}$ $P(\text{even}) = \frac{\text{\# ways to roll an even number}}{\text{3 total \# of sides}} = \frac{3}{6} = \frac{1}{2}$ $P(\text{odd}) = \frac{\text{\# ways to roll an odd number}}{\text{3 total \# of sides}} = \frac{3}{6} = \frac{1}{2}$ Experiment 2 illustrates the difference between an outcome and an event. A single outcome of this experiment is rolling a 1, or rolling a 2, or rolling a 3, etc. Rolling an even number (2, 4 or 6) is an event, and rolling an odd number (1, 3 or 5) is also an event. In Experiment 1 the probability of each outcome is always the same. The probability of landing on each color of the spinner is always one fourth. In Experiment 2, the probability of rolling each number on the die is always one sixth. In both of these experiments, the outcomes are equally likely to occur. Let's look at an experiment in which the outcomes are not equally likely. Experiment 3: A glass jar contains 6 red, 5 green, 8 blue and 3 yellow marbles. If a single marble is chosen at random from the jar, what is the probability of choosing a red marble? a green marble? a blue marble? a yellow marble? Outcomes: The possible outcomes of this experiment are red, green, blue and yellow. Probabilities: $P(\text{red}) = \frac{\text{\# of ways to choose red}}{\text{6 total \# of marbles}} = \frac{6}{22} = \frac{3}{11}$ $P(\text{green}) = \frac{\text{\# of ways to choose green}}{\text{5 total \# of marbles}} = \frac{5}{22}$ $P(\text{blue}) = \frac{\text{\# of ways to choose blue}}{\text{8 total \# of marbles}} = \frac{8}{22} = \frac{4}{11}$ $P(\text{yellow}) = \frac{\text{\# of ways to choose yellow}}{\text{3 total \# of marbles}} = \frac{3}{22}$ The outcomes in this experiment are not equally likely to occur. You are more likely to choose a blue marble than any other color. You are least likely to choose a yellow marble. Experiment 4: Choose a number at random from 1 to 5. What is the probability of each outcome? What is the probability that the number chosen is even? What is the probability that the number chosen is odd? Outcomes: The possible outcomes of this experiment are 1, 2, 3, 4 and 5. Probabilities: $P(1) = \frac{\text{\# of ways to choose a 1}}{\text{1 total \# of numbers}} = \frac{1}{5}$ $P(2) = \frac{\text{\# of ways to choose a 2}}{\text{1 total \# of numbers}} = \frac{1}{5}$ $P(3) = \frac{\text{\# of ways to choose a 3}}{\text{1 total \# of numbers}} = \frac{1}{5}$ $P(4) = \frac{\text{\# of ways to choose a 4}}{\text{1 total \# of numbers}} = \frac{1}{5}$ $P(5) = \frac{\text{\# of ways to choose a 5}}{\text{1 total \# of numbers}} = \frac{1}{5}$ $P(\text{even}) = \frac{\text{\# of ways to choose an even number}}{\text{2 total \# of numbers}} = \frac{2}{5}$ $P(\text{odd}) = \frac{\text{\# of ways to choose an odd number}}{\text{3 total \# of numbers}} = \frac{3}{5}$ The outcomes 1, 2, 3, 4 and 5 are equally likely to occur as a result of this experiment. However, the events even and odd are not equally likely to occur, since there are 3 odd numbers and only 2 even numbers from 1 to 5. Summary: The probability of an event is the measure of the chance that the event will occur as a result of an experiment. The probability of an event A is the number of ways event A can occur divided by the total number of possible outcomes. The probability of an event A, symbolized by $P(A)$, is a number between 0 and 1, inclusive, that measures the likelihood of an event in the following way: If $P(A) > P(B)$ then event A is more likely to occur than event B. If $P(A) = P(B)$ then events A and B are equally likely to occur. Exercises Directions: Read each question below. Select your answer by clicking on its button. Feedback to your answer is provided in the RESULTS BOX. If you make a mistake, choose a different button. 1. Which of the following is an experiment? 2. Which of the following is an outcome? 3. Which of the following experiments does NOT have equally likely outcomes? 4. What is the probability of choosing a vowel from the alphabet? 5. A number from 1 to 11 is chosen at random. What is the probability of choosing an odd number? Navigate through this assortment of printable probability worksheets that includes exercises on basic probability based on more likely, less likely, equally likely, certain and impossible events, pdf worksheets based on identifying suitable events, simple spinner problems, for students in grade 4, grade 5, and grade 6. With the required introduction, the beginners get to further their knowledge with skills like probability on single coin, two coins, days in a week, months in a year, fair die, pair of dice, deck of cards, numbers and more. Mutually exclusive and inclusive events, probability on odds and other challenging probability worksheets are useful for grade 7, grade 8, and high school. Grab some of these probability worksheets for free! Probability on Coins Simple probability worksheets based on tossing single coin or two coins. Identify the proper sample space before finding probability. Probability in a single coin toss Probability in pair of coin - 1 Probability on Days and Months Fun filled worksheet pdfs based on days in a week and months in a year. Sample space is easy to find but care is required in identifying like events. Days of a week Months of a year - 1 Months of a year - 2 Probability on Fair Die Fair die is numbered from 1 to 6. Understand the multiples, divisors and factors and apply it on these probability worksheets. Simple numbers Multiples and divisors Factors Mutually exclusive and inclusive Probability on Pair of Dice Sample space is little large which contains 36 elements. Write all of them in papers before start answering on probability questions for grade 7 and grade 8. Based on numbers Based on sum and difference Based on multiples and divisors Based on factors Mutually exclusive and inclusive Probability on Numbers Students should learn the concepts of multiples, divisors and factors before start practicing these printable worksheets. Probability on numbers - 1 Probability on numbers - 2 Probability on numbers - 3 Probability on numbers - 4 Probability on numbers - 5 Probability on Deck of Cards Deck of cards contain 52 cards, 26 are black, 26 are red, four different flowers, each flower contain 13 cards such as A, 1, 2, ..., 10, J, Q, K. Deck of cards worksheet - 1 Deck of cards worksheet - 2 Deck of cards worksheet - 3 probability using a spinner worksheet answers pdf

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