Lesson 4.8.2: Solving Problems Involving Probabilities of Simple Events

Practice Exercises 4.8.2

Solve each problem completely.

1. A 52-card pack is well shuffled and then one card is drawn from the top of the pack. Determine that it is a red number card.
2. A pair of coin is tossed. What is the probability of getting two tails?
3. Earl Darenz is asked to choose a day from a week. What is the probability of choosing a day which starts with S?
4. A coin was tossed 100 times. It fell on tails 48 times. What is the probability that a tail shows up?
5. Choosing a month from a year, what is the probability of selecting a month with 31 days?
6. If a letter is chosen at random from the word PERSEVERANCE, what is the probability that the letter chosen is E?
7. The sides of a cube are numbered 11 to 16. If Jan Renz rolled the cube once, what is the probability of rolling a composite number?
8. A box contains 7 red balls, 5 orange balls, 4 yellow balls, 6 green balls, and 3 blue balls. What is the probability of drawing out an orange ball?

Activity 4.8.2

Solve each problem completely.

1. A die is rolled. What is the probability of getting a number greater than 4?
2. A die is rolled. What is the probability of getting a number less than 4?
3. A spinner is divided equally and numbered as follows: 1, 1, 2, 3, 3, 4, 1, 1, 2, 4, 1, 2, 3, 4, 1, 2. What is the probability that the pointer will stop at an even prime?
4. What is the probability of getting an 8 from a deck of 52 cards?
5. A pair of dice is rolled. What is the probability of getting two numbers whose sum is at most 4?
6. A pair of dice is rolled. What is the probability of getting two numbers whose sum is at least 10?
7. If one letter is chosen at random from the word TRUSTWORTHY, what is the probability that the letter chosen is a consonant?

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