

7.SP.5: Worksheet

Solutions

1. The weather forecast states that the probability it will rain tomorrow is 0.30. Is it impossible, unlikely, neither likely nor unlikely, likely, or guaranteed that it will rain tomorrow? **It is unlikely to rain tomorrow.**
2. The probability of randomly selecting a yellow marble from a bag of marbles is 0. What conclusion can we draw? **There are no yellow marbles in the bag.**
3. The probability of randomly selecting a yellow marble from a bag of marbles is 1. What conclusion can we make? **The bag contains only yellow marbles.**
4. A student states that the probability that a plastic cup flipped in the air will land on its side is 1.5. What conclusion can be made? **The student made an error. Probability can only be a number between 0 and 1.**
5. If an event is likely to occur, then the probability of the event occurring is between which two numbers? **$\frac{1}{2}$ and 1**
6. According to the weather forecast, the probability that it will snow on Monday is 0.65, and the probability that it will snow on Tuesday is 0.40. On which of the two days is it more likely to snow? **Monday**
7. A fair coin is tossed. What is the probability that the coin lands with the tails side up? **$\frac{1}{2}$**
8. The probability of randomly selecting boy from a seventh grade class of students is $\frac{5}{9}$, and the probability of randomly selecting a student with brown hair is $\frac{2}{3}$. Which of the two events is more likely to occur? **Randomly selecting a student with brown hair**
9. The probability that Michael Jordan makes a free throw is 0.75. The next time he attempts a free throw, how likely is he to make it? **He is likely to make it.**
10. The probability that all of the students will be present in class is 0.6. The probability that at least one student will be absent from class is 0.4. Which of the two events is more likely? **All of the students will be present.**