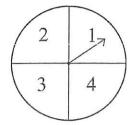
## **Probability Quiz Correctives**

## Multiple Choice

Identify the choice that best completes the statement or answers the question.

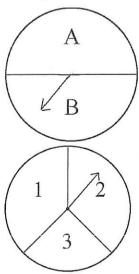
1. Choose *impossible*, *unlikely*, *as likely as not*, *likely*, or *certain* to describe the event.

The spinner lands on numbers 2, 3, or 4.



- a. As likely as not
- b. Impossible
- c. Unlikely
- d. Likely
- e. Certain
- 2. The local weather station reports that the chance of sleet is 0.34. Write this probability as a fraction and as a percent.
  - a.  $\frac{17}{25}$ , 34%
  - b.  $\frac{33}{50}$ , 66%
  - c.  $\frac{17}{50}$ , 34%
  - d.  $\frac{33}{25}$ , 66%

- 3. A new bookstore gives every customer a free book. There is a 10% chance of getting a humor book, a 10% chance of getting a book of poems, a 70% chance of getting a mystery, and a 10% chance of getting a children's book. Is it more likely that a customer get a mystery or a humor book?
  - a. The customer is more likely to get a mystery than a humor book.
  - b. The customer is more likely to get a humor book than a mystery.
  - c. The two types of books are equally likely.
- 4. For the experiment of spinning two spinners, identify the outcome shown.



- a. outcome shown: A, 2
- b. outcome shown: A, 3
- c. outcome shown: B, 2
- d. outcome shown: B, 1

5. Leon tossed a paper cup 50 times and recorded how the cup landed each time. He organized the results in the table shown. Find the experimental probability that the cup will land upside down. Express your answer as a fraction in simplest form.

Outcome	Right-side up	Upside down	On its side
Frequency	7	8	35

- a.  $\frac{4}{25}$
- b.  $\frac{7}{10}$

- c.  $\frac{1}{3}$
- d.  $\frac{7}{50}$
- 6. Victor tossed a paper cup 40 times and recorded how the cup landed each time. He organized the results in the table shown. Find the experimental probability that the cup will NOT land upside down. Express your answer as a fraction in simplest form.

Outcome	Right-side up	Upside down	On its side
Frequency	13	16	11

a.  $\frac{2}{5}$ 

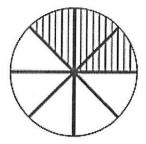
c.  $\frac{13}{40}$ 

b.  $\frac{3}{5}$ 

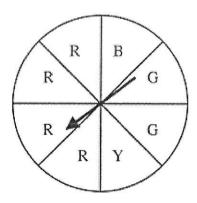
- d.  $\frac{1}{3}$
- 7. What is the probability of rolling a multiple of 2 on a fair number cube? Express your answer as a fraction in simplest form.
  - a.  $\frac{1}{3}$
  - b.  $\frac{1}{6}$
  - c.  $\frac{1}{2}$
  - d.  $\frac{5}{6}$
- 8. A local weather station forecasted a 82% chance of rain for the weekend. What is the probability that it will NOT rain over the weekend? Express your answer as a percent.
  - a. 0.018%
  - b. 18%
  - c. 1.8%
  - d. 0.18%

- 9. A number cube with the numbers 1 through 6 is rolled. Find the probability of rolling a number greater than 5.
  - a.  $\frac{5}{12}$
  - b.  $\frac{1}{6}$
  - c. 0
  - d.  $\frac{1}{12}$

10. If a randomly thrown dart hits the board below, what is the probability it will hit the shaded region? The board is divided into equal parts.

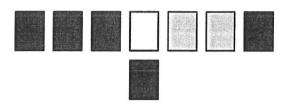


- a. none of these
- b.  $\frac{5}{8}$
- c.  $\frac{3}{8}$
- d. 3
- 11. If you spin the spinner, what is the probability of the pointer landing on R?

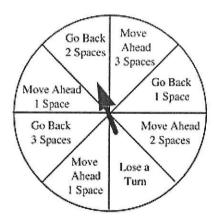


- a.  $\frac{3}{8}$
- b. 1
- c.  $\frac{1}{4}$
- d.  $\frac{1}{2}$

12. Find the probability of picking a black card. Then tell whether the event is *impossible*, *unlikely*, *likely*, or *certain*.



- a.  $\frac{5}{8}$ , likely
- b.  $\frac{1}{8}$ , unlikely
- c. 0, impossible
- d.  $\frac{1}{4}$ , unlikely
- 13. It is Alicia's turn to spin in a game she is playing with her friends.



What is the probability that Alicia will get to move ahead on this spin?

- a.  $\frac{3}{8}$
- b.  $\frac{1}{2}$
- c.  $\frac{1}{3}$
- d.  $\frac{5}{8}$

- 14. There are 10 crayons in a box. Only one of them is silver. A crayon is selected at random. Find the probability that it is *not* silver.
  - a.  $\frac{9}{10}$
  - b.  $\frac{1}{2}$
  - c.  $\frac{1}{10}$
  - d.  $\frac{4}{5}$

## **Short Answer**

15. What fraction has an equal value of the following %'s? 20%\_\_\_\_\_

25%\_\_\_\_\_

33%\_\_\_\_

40%

50%\_\_\_\_\_

60%\_\_\_\_

75%\_\_\_\_

80%\_\_\_\_