

# Experimental Probability

Name \_\_\_\_\_

Date \_\_\_\_/\_\_\_\_/\_\_\_\_

Hour \_\_\_\_

🎯 I can find the probability of an event.

List the sample space and experimental probability of each event as a simplified fraction, decimal and percent.

1.



2.



3.



4. If you were to flip a coin 20 times, which of the following results is most likely to occur? **Explain why.**

- A. 1 head and 5 tails
- B. 5 heads and 15 tails
- C. 9 heads and 11 tails
- D. 13 heads and 7 tails

5. Given the following tally chart, determine the experimental probability of landing on heads.

Heads	Tails

- A. 18%
- B. 36%
- C. 45%
- D. 72%

6. Which of the following experiments will have results closest to those expected?

- A. A coin flipped 20 times
- B. A die rolled 100 times
- C. A card chosen 200 times
- D. A ball chosen from a bag of 20 marbles 1,000 times

Refer to the table below for questions 7 - 8. The table shows the results of rolling a standard die **10 times**.

Number on Die	1	2	3	4	5	6
Times Rolled	1	1	3	2	2	1

7. What is the experimental probability of rolling a 4? Write your answer as a simplified fraction, decimal and percent.

8. Based on this experiment, how many times would you predict to roll a 6 if you roll a die 100 times?

- A. 6 times
- B. 10 times
- C. 17 times
- D. 25 times



9. Erica is a soccer goalie. If she has 21 out of 23 saves in practice, what is the experimental probability that she will have a save on the next shot on goal? Express your answer as a percent.



10. If Nolan hit the bull's-eye 3 out of 8 times at archery practice, what is the experimental probability that he will hit the bull's-eye on his next try? Express your answer as a fraction and percent.



11. After a movie premier, 99 of the first 130 people surveyed said they liked the movie.

a. What is the experimental probability that the next person surveyed will say he or she **liked** the movie?

Express your answer as a percent.

b. What is the experimental probability that the next person surveyed will say he or she **did not** like the movie? Express your answer as a percent.