**13.1 Introduction to Probability and Odds Activity**

**Event: Tossing a coin**

1. What is the probability of tossing a coin and getting heads? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What is the probability of tossing a coin and getting tails? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Toss a coin 20 times and record (with tally marks) your results in the table below.

|  |  |
| --- | --- |
| Heads | Tails |
|  |  |

Using the results from your experiment, answer the following questions.

1. What is the experimental probability of getting heads? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What is the experimental probability of getting tails? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Event: Rolling a dice**

1. What is the probability of rolling a dice and getting 1? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What is the probability of rolling a dice and getting 4? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. What is the probability of rolling a dice and getting an even number? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. What is the probability of rolling a dice and getting an odd number? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. What is the probability of rolling a dice and getting a number greater than 2? \_\_\_\_\_\_\_
6. What are the odds in favor of rolling a 5? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. What are the odds in favor of rolling a 1 or 4? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. What are the odds against rolling a 2? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Roll the dice 20 times and record (with tally marks) your results in the table below.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 |
|  |  |  |  |  |  |

Using the results of your experiment, answer the following questions.

1. What is the experimental probability of rolling a 1? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What is the experimental probability of rolling a 4? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. What is the experimental probability of rolling an even number? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. What is the experimental probability of rolling an odd number? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. What is the experimental probability of rolling a number greater than 2? \_\_\_\_\_\_\_\_\_\_\_\_\_