

Name: _____

Probability



1. If you roll a die, what are the chances of rolling a two? answer: _____

2. If you roll a die, what is the probability that you will roll an even number? answer: _____

3. A bag contains 3 red marbles, 3 blue marbles, and 1 green marble. If a marble is drawn from the bag at random, what is the probability that the marble will be blue? answer: _____

4. A bag contains 7 numbered tiles. The numbers in the bag are 1, 2, 3, 4, 5, 6, and 7. One tile is picked at random.



~ PREVIEW ~

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5. Mr. Jones is so sick that he has to go to the hospital. Mary, Carla, John, Lynda, Peter, and Janessa all want to go. They each write their name on a piece of paper and place them in a hat. Mr. Jones randomly selects one child to go with him.

What is the probability that he will select a boy? answer: _____

What is the probability that he will select a girl? answer: _____

6. John and Jackie are rolling a die. John wins if he rolls a number higher than 4. Jackie wins if the number rolled is 4 or less. Is this game fair? Explain.

ANSWER KEY

Probability



1. If you roll a die, what are the chances of rolling a two? answer: **1 out of 6**

2. If you roll a die, what is the probability that you will roll an even number? answer: **1 out of 2**

3. A bag contains 3 red marbles, 3 blue marbles, and 1 green marble. If a marble is drawn from the bag at random, what is the probability that the marble will be blue? answer: **3 out of 7**

4. A bag of one fruit
one fruit
picking

A red-bordered box containing a cartoon superhero character on the left, wearing a red suit with a blue cape and a shield emblem on his chest. To the right of the character, the word "PREVIEW" is written in large, bold, red letters with a black outline. Below "PREVIEW", the text "Please log in or register to download the printable version of this worksheet." is written in a smaller, black font.

5. Mr. Jones is so small, he can take one child for a ride with him. Mary, Carla, John, Lynda, Peter, and Janessa all want to go. They each write their name on a piece of paper and place them in a hat. Mr. Jones randomly selects one child to go with him.

What is the probability that he will select a boy? answer: **1 out of 3**

What is the probability that he will select a girl? answer: **2 out of 3**

6. John and Jackie are rolling a die. John wins if he rolls a number higher than 4. Jackie wins if the number rolled is 4 or less. Is this game fair? Explain.

This is not fair because John has to roll a 5 or 6, which means he only has a 1 out of 3 chance of winning. Jackie has to roll a 4, 3, 2, or 1, which means she has a 2 out of 3 chance of winning.