

## LESSON 44: Probability

**Homework**

**Directions:** Complete the following problems. Write each answer as a fraction, decimal, and percent.

Yang has a random number generator which randomly gives the numbers from 1 to 10.

1. What is the probability of the random number generator giving the number 5?
2. What is the probability of the random number generator giving a number less than 5?
3. What is the probability of the random number generator giving the number 5 and then giving the number 6?
4. What is the probability of the random number generator giving an even number and then giving an odd number?
5. Yang kept track of the last 50 numbers that the random number generator gave him. Based on the chart, what is the probability that the next number the random number generator gives will be a 3?

<b>Number</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
<b>Trials</b>	<b>4</b>	<b>5</b>	<b>8</b>	<b>2</b>	<b>8</b>	<b>5</b>	<b>4</b>	<b>5</b>	<b>3</b>	<b>6</b>

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Ruth and William are playing a game with a spinner which is divided into four equal sections. The four sections are red, blue, green, and yellow.

6. What is the probability that the spinner will land on yellow?
7. What is the probability that the spinner will land on a color?
8. What is the probability that the spinner will land on blue the first spin and land on blue the second spin?

Use the chart below to answer Questions 9 and 10.

Ruth and William kept track of their last 50 spins. The results are in the chart.

Color	Red	Blue	Green	Yellow
Trials	13	9	12	16

9. What is the experimental probability that the next spin will be a green?
10. What is the experimental probability that the next spin will not be a yellow?