



# Experimental Probability



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 A six-sided die is rolled **50** times. The number 4 appears **18** times.  
What is the **experimental probability** of getting a **four**?

- A .08
- B .17
- C .32
- D .36



2 Nathan spins a spinner 10 times and writes the results down. The results are **B, B, C, E, F, B, D, A, E, C**.

What is the **experimental probability** that Nathan will spin a **B**?

- A .17
- B .29
- C .3
- D .43

3 In a bag, there are **3** green, **4** pink, and **2** blue marbles. Rachel picks a marble, writes down the results and puts the marble back. Her results are:  
**P, P, G, B, G, P, B, G, P, G, P, B, P, G, B.**

What is the **experimental probability** that she will pick a pink marble?

- A .40
- B .44
- C .60
- D .67



4 A coin is flipped **20** times and the results are **H, H, T, T, T, H, T, T, H, T, H, H, T, T, T, H, T, H, T, T.**

What is the **experimental probability** of getting a tail?

- A .17
- B .50
- C .60
- D .67



5 **Twenty-five** students were asked what their favorite number from 1-9 was. The results were that **8** students said 3, **6** students said 4, **9** students said 7, and **2** students said 9.

What was the **experimental probability** that the number **3** was picked?

- A .24
- B .32
- C .34
- D .36



6 Caleb picked **10** letters from the alphabet out of a hat. His results were **H, J, X, A, N, O, I, N, B, C.**

What is the **experimental probability** that he picked an **N**?

- A .04
- B .10
- C .18
- D .20



7 The spinner shown is spun **75** times and the number seven appears **17** times. The **experimental probability** of getting the number seven is greater than the **theoretical probability** of getting the number seven.

**True or false?**

- A true
- B false



8 The letters in the word **PARALLELOGRAM** are put into a hat. The letters are picked out **50** times. The letter **L** appears **11** times.

The **experimental probability** is \_\_\_\_\_ the **theoretical probability**.

- A greater than
- B less than
- C equal to
- D half

9 A die is rolled and the results are **2, 4, 6, 1, 5, 1, 6, 3, 2, 4, 5, 6, 1, 6, 4, 3, 6, 1, 6, 6.** The **experimental probability** for getting a **6** is close to the **theoretical probability**.

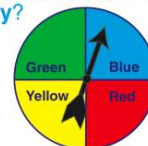
**True or false?**

- A true
- B false



10 The theoretical probability for the spinner shown to land on blue is  $\frac{1}{4}$  or **.25**. An experiment is done and the spinner is spun **150** times. **How many times** should the spinner land on blue to have an **experimental probability** close to the **theoretical probability**?

- A 24
- B 30
- C 38
- D 60





## ANSWER KEY

A six-sided die is rolled **50** times.  
The number 4 appears **18** times.

What is the **experimental probability** of getting a **four**?

- A .08
- B .17
- C .32
- D .36



(d)

Nathan spins a spinner 10 times and writes the results down. The results are **B, B, C, E, F, B, D, A, E, C**.

What is the **experimental probability** that Nathan will spin a **B**?

- A .17
- B .29
- C .3
- D .43

(c)

In a bag, there are **3 green**, **4 pink**, and **2 blue** marbles. Rachel picks a marble, writes down the results and puts the marble back. Her results are:

**P, P, G, B, G, P, B, G, P, G, P, B, P, G, B.**

What is the **experimental probability** that she will pick a pink marble?

- A .40
- B .44
- C .60
- D .67



(a)

A coin is flipped **20 times** and the results are **H, H, T, T, T, H, T, T, H, T, H, H, T, T, T, H, T, H, T, T.**

What is the **experimental probability** of getting a tail?

- A .17
- B .50
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- D .67



(c)

**Twenty-five** students were asked what their favorite number from 1-9 was. The results were that **8** students said 3, **6** students said 4, **9** students said 7, and **2** students said 9.

What was the **experimental probability** that the number **3** was picked?

- A .24
- B .32
- C .34
- D .36



(b)

Caleb picked **10** letters from the alphabet out of a hat. His results were **H, J, X, A, N, O, I, N, B, C.**

What is the **experimental probability** that he picked an **N**?

- A .04
- B .10
- C .18
- D .20



(d)

The spinner shown is spun **75 times** and the number seven appears **17 times**. The **experimental probability** of getting the number seven is greater than the **theoretical probability** of getting the number seven.

**True or false?**

- A true
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(a)

The letters in the word **PARALLELOGRAM** are put into a hat. The letters are picked out **50 times**. The letter **L** appears **11 times**.

The **experimental probability** is \_\_\_\_\_ the **theoretical probability**.

- A greater than
- B less than
- C equal to
- D half

(b)

A die is rolled and the results are **2, 4, 6, 1, 5, 1, 6, 3, 2, 4, 5, 6, 1, 6, 4, 3, 6, 1, 6, 6**. The **experimental probability** for getting a **6** is close to the **theoretical probability**.

**True or false?**

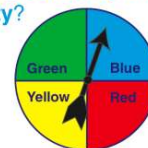
- A true
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(b)

The theoretical probability for the spinner shown to land on blue is  $\frac{1}{4}$  or **.25**. An experiment is done and the spinner is spun **150 times**. How many times should the spinner land on blue to have an **experimental probability** close to the **theoretical probability**?

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(c)