ZiloAcademy

✨ Grade 9 Maths — Experimental vs Theoretical Probability ✨

Name: Demo **Date:** 26/11/2026

1. A bag contains 3 red, 5 blue, 5 green marbles. What is the THEORETICAL probability of picking a blue marble, as a fraction in simplest form?

2. In 100 trials, an event occurred 42 times. What is the EXPERIMENTAL probability, as a fraction in simplest form?

3. In 50 trials, an event occurred 19 times. What is the EXPERIMENTAL probability, as a fraction in simplest form?

4. A bag contains 2 red, 4 blue, 7 green marbles. What is the THEORETICAL probability of picking a green marble, as a fraction in simplest form?

5. In 25 trials, an event occurred 10 times. What is the EXPERIMENTAL probability, as a fraction in simplest form?

6. In 20 trials, an event occurred 3 times. What is the EXPERIMENTAL probability, as a fraction in simplest form?

7. A bag contains 7 red, 2 blue, 4 green marbles. What is the THEORETICAL probability of picking a blue marble, as a fraction in simplest form?

8. A bag contains 4 red, 5 blue, 3 green marbles. What is the THEORETICAL probability of picking a blue marble, as a fraction in simplest form?

9. In 100 trials, an event occurred 71 times. What is the EXPERIMENTAL probability, as a fraction in simplest form?

10. A bag contains 2 red, 3 blue, 3 green marbles. What is the THEORETICAL probability of picking a blue marble, as a fraction in simplest form?