ZiloAcademy

# ✨ Grade 10 Maths — Expected & Experimental Probability ✨

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

1. A fair 4-sided die is rolled 20 times. How many times would you expect to roll a 2?

2. A drawing pin is dropped 50 times and lands point-up 7 times. What is the experimental probability of point-up, as a fraction in simplest form?

3. A drawing pin is dropped 25 times and lands point-up 22 times. What is the experimental probability of point-up, as a fraction in simplest form?

4. A game costs $5 to play and pays $35 with probability 1/10 (nothing otherwise). Find the expected profit per game in dollars (negative for a loss, e.g. -1.5).

5. A fair 4-sided die is rolled 44 times. How many times would you expect to roll a 3?

6. A drawing pin is dropped 20 times and lands point-up 18 times. What is the experimental probability of point-up, as a fraction in simplest form?

7. A game costs $7 to play and pays $20 with probability 1/8 (nothing otherwise). Find the expected profit per game in dollars (negative for a loss, e.g. -1.5).

8. A drawing pin is dropped 100 times and lands point-up 91 times. What is the experimental probability of point-up, as a fraction in simplest form?

9. A fair 6-sided die is rolled 66 times. How many times would you expect to roll a 5?

10. A drawing pin is dropped 50 times and lands point-up 17 times. What is the experimental probability of point-up, as a fraction in simplest form?