Foundation

1. A coin is tossed 20 times and lands heads 11 times. Estimate the probability of heads.

2. A die is rolled 30 times and a 6 appears 4 times. Estimate the probability of rolling a 6.

3. A spinner lands on red 9 times in 15 spins. Estimate the probability of red.

4. In 25 draws from a bag, a blue counter is picked 10 times. Estimate the probability of blue.

5. A survey chart shows 18 of 30 students walk to school. Estimate the probability that a randomly chosen student walks to school.

6. A weather record shows rain on 6 of the last 10 days. Estimate the probability of rain tomorrow using this data.

7. A coin lands tails 14 times in 20 tosses. Write the experimental probability of tails.

8. A spinner lands on green 7 times in 28 spins. Write the experimental probability of green.

9. Out of 40 penalty shots, 26 are scored. Estimate the probability of scoring.

10. Out of 50 seeds planted, 35 sprout. Estimate the probability that a seed sprouts.

11. Which is greater: an experimental probability of $\frac{9}{20}$ or $\frac{1}{2}$?

12. Which is smaller: 30% success or $\frac{2}{5}$ success?

13. Fill in the blank: 12 wins from 20 games gives an experimental probability of $\frac{\square}{20}$.

14. Fill in the blank: 15 successes from 25 trials gives an experimental probability of $\square\%$.

15. A student says 3 reds in 12 draws means the probability of red is $\frac{1}{3}$. Are they correct?

16. Explain in one short sentence what experimental probability means.