

Proficient

- 1.** A coin is tossed 80 times and lands heads 37 times. Estimate the probability of heads as a fraction and decimal.
- 2.** A die is rolled 60 times and an even number appears 34 times. Estimate the probability of rolling an even number.
- 3.** A spinner lands on blue 18 times in 45 spins. Estimate the probability of blue.
- 4.** A bus is late on 9 of the last 24 school days. Estimate the probability it is late on a future school day.
- 5.** In a tally chart, 14 of 35 customers choose mango. Estimate the probability that the next customer chooses mango.
- 6.** A class bar chart shows 12 students play football, 9 netball, 6 basketball, and 3 hockey. Estimate the probability a randomly chosen student plays netball.

- 7.** A bag is sampled 50 times with replacement and a yellow counter appears 21 times. Estimate the probability of yellow.
- 8.** In 120 free throws, a player scores 78. Estimate the probability of scoring a free throw.
- 9.** Which is closer to $\frac{1}{2}$: 24 successes in 50 trials or 17 successes in 30 trials?
- 10.** Fill in the blank: 48 correct answers from 60 questions gives an experimental probability of $\square\%$.