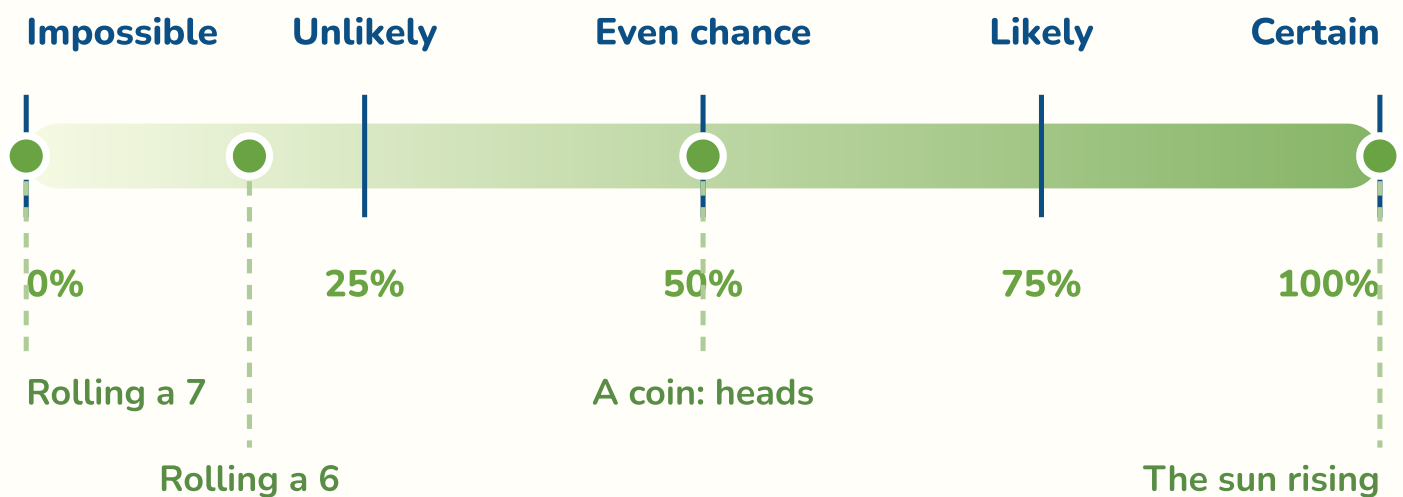


Probability



Work out a probability

$$P = \frac{\text{favorable}}{\text{total}}$$

a die shows 4: $\frac{1}{6}$

An even chance

$$\frac{1}{2} = 50\%$$

a coin: heads or tails

Always 0 to 1

0 = never, 1 = always

or 0% to 100%

Probability measures how **likely something is** — from 0, it cannot happen, to 1, it must. Count the favorable outcomes over the total.