

Max's Probability Puzzles

Learning objective: To understand and use the language of probability to describe the likelihood of events occurring.

Read the front of each card to Max the monkey. Try to answer the question before checking the back for the correct mathematical term or explanation.

What do we call an event that has absolutely no chance of happening, like a cat barking?

Impossible

If you flip a fair coin, what is the chance of it landing on heads?

An even chance (or 50/50)

What do we call an event that is almost certain to happen, but there is a tiny chance it might not?

Likely

If it is 100% guaranteed to happen, such as the sun rising tomorrow, what is the probability?

Certain

Max has a bag with 9 blue marbles and 1 red marble. Is picking the red marble likely or unlikely?

Unlikely

What is the term for a measure of how likely it is that an event will occur?

Probability

If you roll a standard 6-sided die, is it more likely to roll a number greater than 1, or to roll a 7?

Rolling a number greater than 1 (Rolling a 7 is impossible)

Max buys a ticket for a raffle. There are 100 tickets and he has 1. Is it likely or unlikely he will win?

Unlikely

Define 'Even chance' in your own words.

When there is an equal possibility of an event happening or not happening.

If you have a bag of 5 apples and 5 pears, what is the probability of picking an apple?

Even chance

Max has a jar of 20 sweets. 19 are yellow and 1 is green. What is the probability of picking a yellow sweet?

Likely

True or False: The probability of an event can be shown on a scale from 0 to 1.

True