

Probability Coin

Worksheet (Grade Level)

Name _____

Question 1

What is the sample space for flipping a fair coin?

Question 2

What is the probability of getting heads on a single coin flip?

Question 3

If you flip a coin 10 times, how many times would you expect it to land on tails?

Question 4

You flipped a coin 50 times and got 28 heads. How does this compare to the expected probability?

Question 5

If you flip a coin 100 times, will you always get exactly 50 heads and 50 tails? Why or why not?

Notes:

Probability Coin

Worksheet (Higher Level)

Name _____

Question 1

If a coin is flipped twice, what is the sample space for all possible outcomes?

Question 2

What is the probability of getting at least one heads in two consecutive coin flips?

Question 3

You flip a coin 100 times and get 60 heads. Is this result unusual? How could you determine this using probability concepts?

Question 4

How does increasing the number of coin flips affect the relative frequency of heads and tails? Explain using the law of large numbers.

Question 5

A biased coin lands on heads 70% of the time. How would this affect predictions for 50 flips compared to a fair coin?

Notes:

Probability Coin

Worksheet (Lower Level)

Name _____

Question 1

What are the two possible outcomes when you flip a coin?

Question 2

If you flip a coin, is it more likely to land on heads or tails?

Question 3

What does it mean if a coin is "fair"?

Question 4

If you flip a coin 5 times, will you always get the same number of heads and tails? Why or why not?

Question 5

Can you guess what the coin will land on before flipping it? Why is it just a guess?

Notes: