

Mathematics

Theoretical Probability and Relative Frequency

Downloadable Resource

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Theoretical Probabilities and Relative Frequency

Cala decides to throw a coin 50 times. She says “I will get 25 heads and 25 tails”. Explain why she could be wrong.

I roll a dice 30 times and get these results:

6 3 6 3 6 6 3 6 2 6 6 4 3 6 1

6 4 6 6 3 6 5 6 6 2 6 3 1 4 3

Number	1	2	3	4	5	6
Relative Frequency						

a) Complete the relative frequency table.

b) Do you think the dice is biased?

I toss a coin 200 times and I get 120 heads.

a) What is the relative frequency of getting a head?

b) What is the relative frequency of getting a tail?

I roll a dice 60 times. The number 4 comes up 8 times. Is the relative frequency higher or lower than the theoretical probability?

