

Experimental Probability



Section A

Roll a dice 60 times and record the number of '6's scored after every 10 rolls. Record your results in the table below. Leave your answers to two decimal places. Plot your results on the graph and then answer the questions.

Number of Trials	Number of '6's	Experimental probability of scoring '6'	Theoretical probability of scoring '6'
10			
20			
30			
40			
50			
60			



- 1) Were the results from your experiment as you expected? Why? Why not?
- 2) Which is the most reliable estimate of the experimental probability of scoring a '6'?
- 3) How could you get an experimental probability that is closer to the theoretical probability of scoring a '6'?

Section B

The same experiment is conducted using a different dice. The results are recorded in the table. Complete the table leaving answers to two decimal places. Plot the results on the graph and then answer the questions.

Number of Rolls	Number of '6's	Experimental probability of scoring '6'	Theoretical probability of scoring '6'
10	2		
20	16		
30	27		
40	30		
50	42		
60	50		



- 1) What does the horizontal line (in red) represent?
- 2) Is the dice a fair dice? How can you tell from your graph?
- 3) How would the graph compare with the horizontal line (theory line) as the number of trials increase?

Practice A Lesson 7 2 Theoretical And Experimental Probability

Brendan G. Carr



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