Die Rolling Experiment

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FA1 Questions

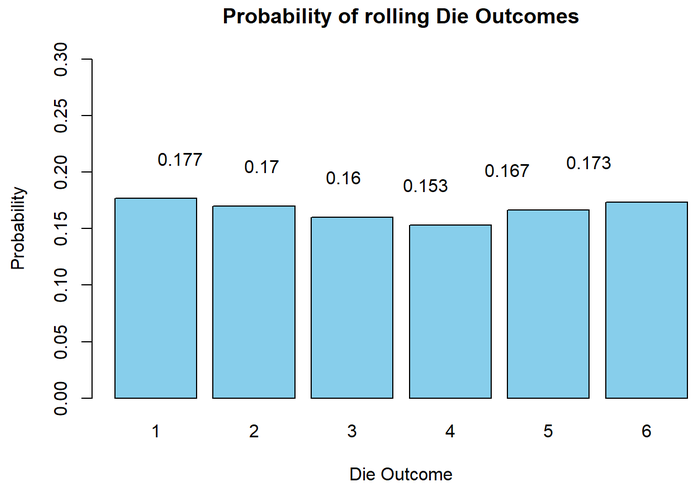
3. An experiment consists of rolling a die. Use R to simulate this experiment 600 times and obtain the relative frequency of each possible outcome. Hence, estimate the probability of getting each of 1, 2, 3, 4, 5, and 6.

Simulating Die Rolling Experiment and its Results

```
## die_outcomes
##         1         2         3         4         5         6
## 0.1766667 0.1700000 0.1600000 0.1533333 0.1666667 0.1733333
```

In this section, we set up the R Markdown document and performed the die rolling experiment by simulating it 600 times. We calculated the relative frequencies for each possible die outcome (1, 2, 3, 4, 5, and 6).

Bar Graph



In this section, we created a bar graph to visually represent the probabilities of each die outcome. The x-axis represents the die outcomes, and the y-axis represents the probability of each outcome. Probability values are displayed above the corresponding bars in the graph.