

Dice experiment

Instructions

- Obtain a 6-sided die. (“Die” is the singular of “dice”.)
- Repeat 3 times:
 - Roll the die 10 times, recording each roll.
 - Determine the total and mean.
 - Make a frequency table.
 - Make a (stacked) dot plot.
- Tell the professor your 3 means. All of the class’s means will be recorded on the tally table.
- Copy the class’s means onto your own tally table.
- Make a histogram of the class’s means.

Homework

- On the last page, summarize in your own words what we did and what the results were. Also, on the last page, answer the following questions.
 - How many times did you roll a 1?
 - How many times did anyone in the class get a mean of 1?
 - Why is it easier to roll a 1 than to get a mean of 1?
 - If you rolled the die 1000 times and made a dot plot, what shape would you expect? (bell, uniform, bimodal, left-skewed, or right-skewed?)
 - What shape did the histogram of the class’s means have?
 - What do you think would change if instead of 10 rolls for each mean, there were 100 rolls for each mean?