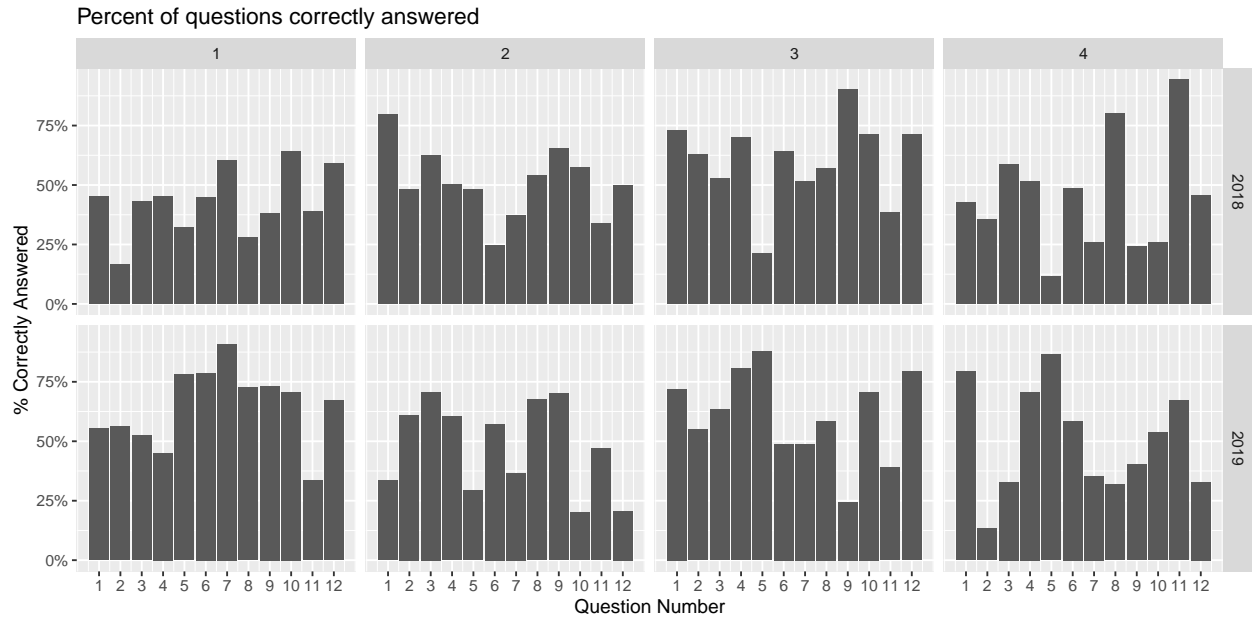# Homework 3: Do Trivia Nerds Cheat?

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Question 1: Clean data and report summary statistics of percent correct answers by year and round of the championship, as well as when these players are on the honor system. Provide hypotheses as to why these summary percentages might vary.

Percent of questions correctly answered

Year	1	2	3	4
2018	79.7% (n = 1668)	79.7% (n = 1668)	80.7% (n = 840)	80.7% (n = 840)
2019	79.5% (n = 1968)	79.5% (n = 1968)	80.7% (n = 984)	80.7% (n = 984)

Table 3: Longtable

	2018				2019			
qno	1	2	3	4	11	21	31	41
Question 1	45.32%	79.86%	72.9%	42.9%	55.49%	33.54%	72.0%	79.3%
Question 2	16.55%	48.20%	62.9%	35.7%	56.10%	60.98%	54.9%	13.4%
Question 3	43.17%	62.59%	52.9%	58.6%	52.44%	70.73%	63.4%	32.9%
Question 4	45.32%	50.36%	70.0%	51.4%	45.12%	60.37%	80.5%	70.7%
Question 5	32.37%	48.20%	21.4%	11.4%	78.05%	29.27%	87.8%	86.6%
Question 6	44.60%	24.46%	64.3%	48.6%	78.66%	57.32%	48.8%	58.5%
Question 7	60.43%	37.41%	51.4%	25.7%	90.85%	36.59%	48.8%	35.4%
Question 8	28.06%	53.96%	57.1%	80.0%	72.56%	67.68%	58.5%	31.7%
Question 9	38.13%	65.47%	90.0%	24.3%	73.17%	70.12%	24.4%	40.2%
Question 10	64.03%	57.55%	71.4%	25.7%	70.73%	20.12%	70.7%	53.7%
Question 11	38.85%	33.81%	38.6%	94.3%	33.54%	46.95%	39.0%	67.1%
Question 12	58.99%	49.64%	71.4%	45.7%	67.07%	20.73%	79.3%	32.9%

Table 1: 2018 Percent of Questions Answered Correctly

Round	Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q 9	Q 10	Q 11	Q 1
1	45.32%	16.55%	43.17%	45.32%	32.37%	44.60%	60.43%	28.06%	38.13%	64.03%	38.85%	58.9
2	79.86%	48.20%	62.59%	50.36%	48.20%	24.46%	37.41%	53.96%	65.47%	57.55%	33.81%	49.6
3	72.9%	62.9%	52.9%	70.0%	21.4%	64.3%	51.4%	57.1%	90.0%	71.4%	38.6%	71.4
4	42.9%	35.7%	58.6%	51.4%	11.4%	48.6%	25.7%	80.0%	24.3%	25.7%	94.3%	45.7

Table 2: 2019 Percent of Questions Answered Correctly

Round	Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q 9	Q 10	Q 11	Q 1
1	55.49%	56.10%	52.44%	45.12%	78.05%	78.66%	90.85%	72.56%	73.17%	70.73%	33.54%	67.0
2	33.54%	60.98%	70.73%	60.37%	29.27%	57.32%	36.59%	67.68%	70.12%	20.12%	46.95%	20.7
3	72.0%	54.9%	63.4%	80.5%	87.8%	48.8%	48.8%	58.5%	24.4%	70.7%	39.0%	79.3
4	79.3%	13.4%	32.9%	70.7%	86.6%	58.5%	35.4%	31.7%	40.2%	53.7%	67.1%	32.9