

Quiz 8

⚠ This is a preview of the published version of the quiz

Started: Jun 22 at 9:13pm

Quiz Instructions



Question 1 1 pts

Which of the following is true about the statistical power of a hypothesis test?

☐

More data leads to more power for the same test.

☐

All of them!

☐

Power measures how likely the null hypothesis will be correctly rejected.

☐

Power is 1 minus Type II error probability.



Question 2 1 pts

I want to know whether students who attend class in person have a higher average grade on midterm than those who attend class on Zoom. Which of the following test can be used?

☐

Two sample independent t-test.

☐

One sample t-test



Chi-square test for independence.



Two sample paired t-test.



Question 3 1 pts

It is reported that Rice students study on average for 20 hours per week outside of classes. To test whether this claim is accurate, which test can be used?



Chi-square test for goodness of fit.



Two sample independent t-test.



Two sample paired t-test.



One sample t-test.



Question 4 1 pts

Which of the following is true about nonparametric tests?



They can be applied when population distribution is not normal.



They often test median instead of mean by converting raw data to rankings.




All of them!

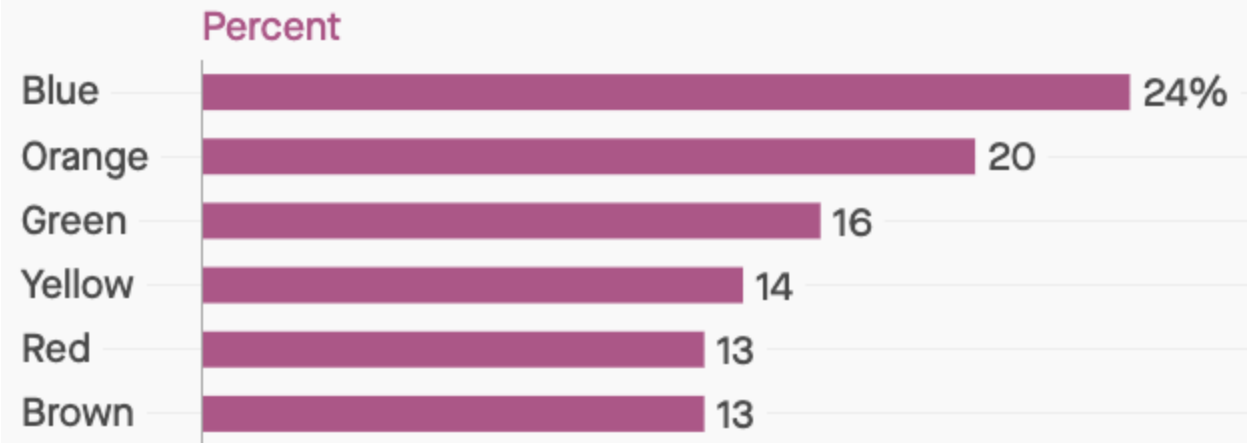


They do not require any assumption on the population distribution.



Question 5 1 pts

According to this [post](https://qz.com/918008/the-color-distribution-of-mms-as-determined-by-a-phd-in-statistics/) , if I want to confirm the color distribution of M&M I got from my local grocery store fits the following distribution:

M&Ms color distribution, c. 2008

which test can I use?

☐

Chi-square test for independence.

☐

Chi-square test for goodness of fit.

☐

One sample t-test.

☐

Two sample independent t-test.

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