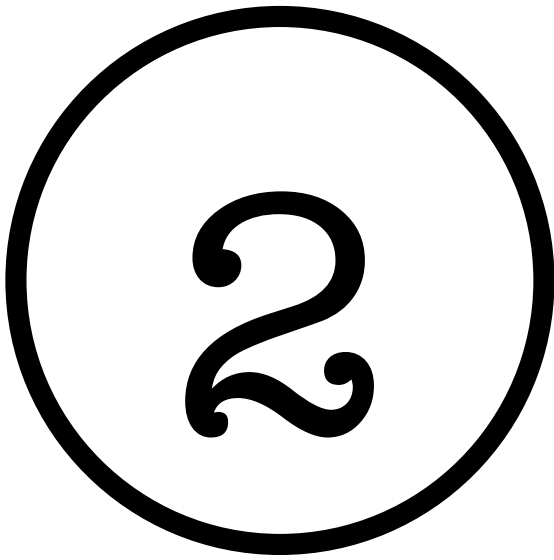# 1

Do people spend more time working or sleeping? 200 people were asked how many hours they work per week and how many hours per week they sleep.

Which test below is the most appropriate analysis?

A. 1-sample t-test	Go To # 10
B. 2-sample t-test	Go To # 2
C. t-test for paired differences	Go To # 7
D. 2-sample t-interval	Go To # 4

2

How much more money does the typical restaurant customer spend on the main course vs. the other items? 45 customers were observed.

Which would be the most appropriate analysis?

A. t-test on the paired differences	Go To # 5
B. t-interval on the paired differences	Go To # 10
C. 2-sample t-test	Go To # 4
D. 2-sample t-interval	Go To # 3

3

Are art museums better attended on rainy days than on sunny days? Attendance numbers at the city museum of art were examined for 100 rainy days and 300 sunny days.

Which test is appropriate?

A. 2-proportion z-test	Go To # 9
B. 2-sample t-test	Go To # 5
C. Chi-squared Goodness of Fit Test	Go To # 6
D. matched pairs t-test	Go To # 8

4

Are oysters that grow under natural conditions more likely to form a pearl than oysters that are farmed? 4000 natural oysters and 3000 farmed oysters were checked for pearls.

Which analysis is best?

A. matched pairs t-test	Go To # 5
B. 2-sample t-test	Go To # 6
C. 2-proportion z-interval	Go To # 8
D. 2-proportion z-test	Go To # 3

5

Is the type of dwelling that a person lives in related to the job that the person has? 2000 people were surveyed.
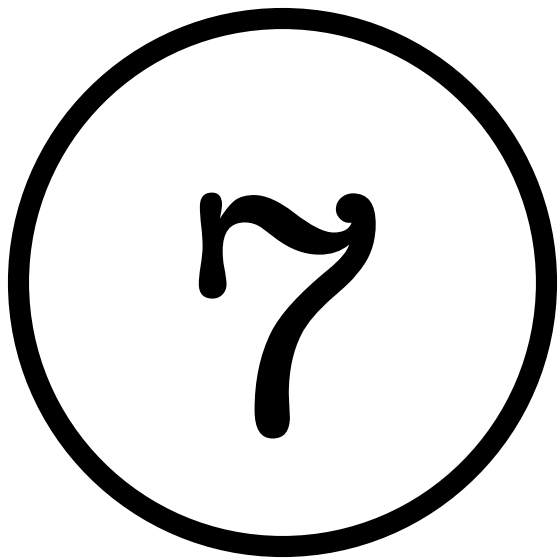
Which analysis is appropriate?

A. 2-sample t-test	Go To # 6
B. Chi-squared test for independence	Go To # 8
C. 2-proportion z-test	Go To # 9
D. 2-sample t-interval	Go To # 1

6

What is the difference between political affiliation before and after a war? Two samples of 2500 citizens were polled (one before and one after the war) if they were Republicans.
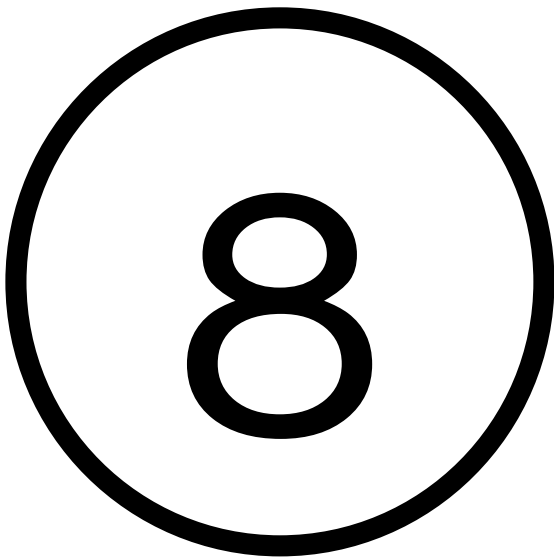Which analysis below will answer the question?

A. 1-proportion z-interval	Go To # 1
B. 2-sample t-test	Go To # 2
C. 2-sample t-interval	Go To # 7
D. 2-proportion z-interval	Go To # 9

7

What percent of parolees return to prison because of parole violations? 800 parolees were tracked.

What analysis below will answer this question?

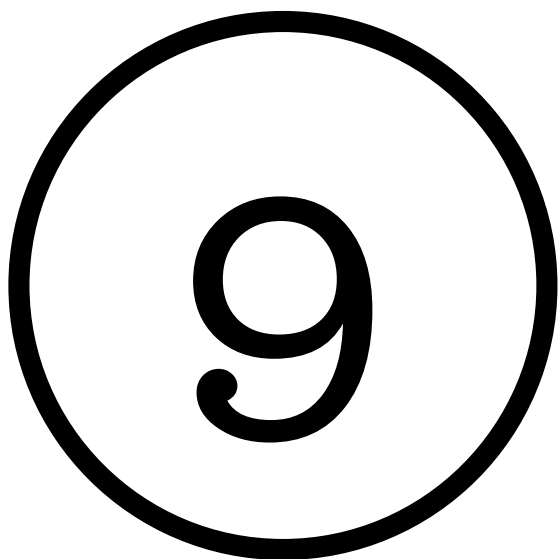| A. 2-sample t-test	Go To # 3
B. 1-sample t-test	Go To # 10
C. 1-proportion z-test	Go To # 4
D. 1-proportion z-interval	Go To # 2

8

Do more than 70% of statistics students pass their course? 200 statistics students were observed.

Which analysis below will answer this question?

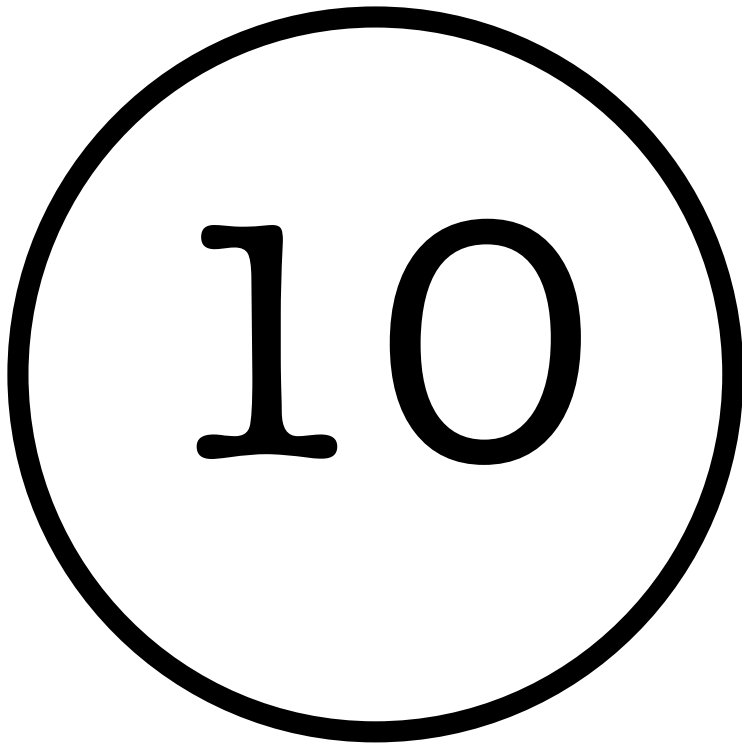| A. 2-proportion z-test	Go To # 1
B. 1-proportion z-interval	Go To # 7
C. 1-proportion z-test	Go To # 6
D. 2-proportion z-interval	Go To # 9

9

A police chief is interested in estimating the average amount of money that is stolen during a bank robbery. She investigates 42 recent bank robberies.

Which analysis is appropriate?

A. Chi-squared Goodness of Fit Test	Go To # 10
B. 1-sample t-test	Go To # 2
C. 1-sample t-interval	Go To # 1
D. 1-proportion z-interval	Go To # 7

10

Do fatalities at a crime scene occur less often if there are more police officers involved? 45 crimes where only one officer was at the scene and 34 crimes where more than one officer was called were examined.

Which analysis will answer the question?

A. 2-sample t-test	Go To # 5
B. Chi-squared Goodness of Fit Test	Go To # 8
C. 2-proportion z-interval	Go To # 3
D. 2-proportion z-test	Go To # 4

Key

1
7
2
10
4
3
5
8
6
9
1