

✔ **Congratulations! You passed!**

Grade received **100%** To pass 80% or higher

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Test your knowledge on testing your data

Total points 3

1. A research team runs an experiment to determine if a new security system is more effective than the previous version. What type of results are required for the experiment to be statistically significant?

1 / 1 point

- ☐ Results that are unlikely to occur again
- ☐ Results that are inaccurate and should be ignored
- ☒ Results that are real and not caused by random chance
- ☐ Results that are hypothetical and in need of more testing

✔ **Correct**

In order for an experiment to be statistically significant, the results should be real and not caused by random chance.

2. In order to have a high confidence level in a customer survey, what should the sample size accurately reflect?

1 / 1 point

- ☐ The predictions of stakeholders
- ☒ The entire population
- ☐ The trends from other customer surveys
- ☐ The most valuable members of the population

✔ **Correct**

In order to have a high confidence level in a customer survey, the sample size should accurately reflect the entire population.

3. A data analyst determines an appropriate sample size for a survey. They can check their work by making sure the confidence level percentage plus the margin of error percentage add up to 100%.

1 / 1 point

- ☐ True
- ☒ False

✔ **Correct**

The confidence level percentage and margin of error percentage do not have to add up to 100%. They are independent of each other.