

Understanding Experiment Designs

Quiz, 10 questions

10/10 points (100%)**Congratulations! You passed!**[Next Item](#)1 / 1
point

1.

What might account for random error in an experimental measure?

Natural variation among and within subjects

**Correct**

A systematic flaw in the logging software



A pattern of dropped data for every fifth subject



Biased observations



None of the above.

1 / 1
point

2.

Which of the following would be an ordinal response? (Mark all that apply.)



Responses on a Likert-type scale

**Correct**

Height in centimeters of each subject

**Un-selected is correct**

Favorite color of each subject



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How spicy each subject prefers their Thai food using 1-5 stars

**Correct**

The number of heads resulting from one-hundred coin flips

**Un-selected is correct**1 / 1
point

3.

In an experiment, factors are the independent variables manipulated by the experimenter, and levels are the specific values a factor can take on.



True

**Correct**

False

1 / 1
point

4.

A between-subjects factor is most precisely defined by which of the following characteristic?



Each subject experiences more than one level of the factor.



Each subject experiences only one level of the factor.

**Correct**

Each subject experiences all levels of the factor.



Each subject experiences all but one level of the factor.



None of the above.

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5.

A within-subjects factor is most precisely defined by which of the following characteristic?

☒ Each subject experiences more than one level of the factor.

**Correct**

☐ Each subject experiences only one level of the factor.

☐ Each subject experiences all levels of the factor.

☐ Each subject experiences all but one level of the factor.

☐ None of the above.

1 / 1
point

6.

If a given factor has four levels and subjects experience two of the four levels, that factor is most precisely described as:

☐ A within-subjects factor

☐ A between-subjects factor

☒ A partial within-subjects factor

**Correct**

☐ A partial between-subjects factor

☐ None of the above.

1 / 1
point

7.

Balanced experimental designs are where every subject experiences every level of every factor.

☐ True

☒ False

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Correct
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point

8.

The most common use of an independent-samples t -test is to examine which of the following?

- ☐ One set of subjects that all does the same thing.
- ☐ One set of subjects that does two different things.
- ☐ Two sets of subjects that do the exact same thing.
- ☒ Two sets of subjects that do different things.

Correct



1 / 1
point

9.

Which of the following is the most proper way to report a t -test result?

- ☐ $t(14) = 2.76, p=.015$
- ☒ $t(14) = 2.76, p<.05$

Correct



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point

10. Understanding Experiment Designs

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True



Correct



False

