

1. R can perform several forms of statistical computation. What is an example of hypothesis testing?

1 / 1 point

- ☐ Obtaining a representative subset of data.
- ☒ Testing if the mean values of two groups are statistically different.
- ☐ Inferring an unknown mean value of a population from its samples.
- ☐ Compute and visualize a correlation matrix among four different variables to see if they are correlated.

✓ **Correct**

This is an example of hypothesis testing.

2. Which of the following data type conversions may be not allowed in R?

1 / 1 point

- ☐ logical (like TRUE or FALSE) to numeric
- ☐ integer (like 1L or 2L) to numeric
- ☐ numeric (like 1 or 2) to integer
- ☒ character (like `1`, `A`, or `test`) to numeric

✓ **Correct**

R will raise an error if you attempt to convert an actual character to a numeric.

3. What is the result of the R expression `100 * (5 - 3)`?

1 / 1 point

- ☐ 500
- ☐ 497
- ☒ 200
- ☐ 503

✓ **Correct**

This answer correctly interprets the order of operations for expressions in R.

4. After you write code in an R script file or the R Console, what component of the R environment parses the code into objects in memory?

1 / 1 point

- ☒ R Interpreter
- ☐ R Workspace
- ☐ R data files
- ☐ R variables, functions, and datasets

✓ **Correct**

The R Interpreter parses the code and translates it into many types of objects in memory.

5. Which features of RStudio help facilitate code writing? Select two answers.

1 / 1 point

☒ Syntax highlighting

✓ **Correct**

Syntax highlighting and code auto completion are two features of RStudio that help facilitate code writing.

☐ File Explorer

☐ Workspace visualization

☒ Code auto completion

✓ **Correct**

Syntax highlighting and code auto completion are two features of RStudio that help facilitate code writing.

6. True or False: Execution order does not matter when executing cells in a Jupyter notebook

1 / 1 point

- ☐ True
- ☒ False

✓ **Correct**

If you execute cells in a specific sequence, the cells can access all objects and outputs generated in all previous cells.