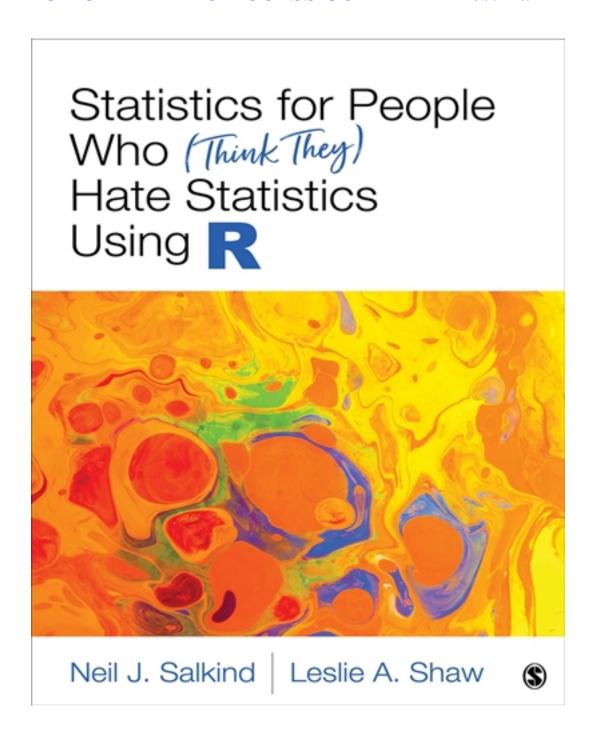
Test Bank for Statistics for People Who Think They Hate Statistics Using R 1st Edition by Salkind

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Test Bank

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Chapter 2: Here's Why We Love R and How to Get Started Test Bank

Multiple Choice

- 1. What is R according to the creators Ross Ihaka and Robert Gentleman?
- a. proprietary software
- b. a way to compute the mean
- c. expensive software
- d. a statistical computing language

Ans: D

Learning Objective: 2.1: R came from.

Cognitive Domain: Knowledge

Answer Location: A Very Short History of R

Difficulty Level: Easy

- 2. Why is R named R?
- a. R is the first letter in each of the first names of the original authors of R.
- b. The creators of R liked pirates.
- c. R is based on S so they picked a letter near S in the alphabet.
- d. The creators randomly chose the letter R.

Ans: A

Learning Objective: 2.1: Understanding what R is and a short history of where R came

from.

Cognitive Domain: Knowledge

Answer Location: A Very Short History of R

Difficulty Level: Easy

- 3. What is not a plus of using R?
- a. free
- b. open source
- c. can be installed on most any computer
- d. help text can be cryptic

Ans: D

Learning Objective: 2.2: Understanding the pluses and minuses of using R

Cognitive Domain: Knowledge

Answer Location: The Pluses of Using R

Difficulty Level: Easy

- 4. The R console is _____.
- a. the first thing seen when opening R
- b. where you can enter R commands

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c. where you can find results d. all of these Ans: D Learning Objective: 2.5: Learn a new language, R Cognitive Domain: Knowledge Answer Location: The Opening R Screen Difficulty Level: Easy 5. What does GUI stand for? a. general user intranet b. general user interface c. graphical user interface d. graphic usable interface Ans: C Learning Objective: Learning Objective: 2.5: Learn a new language, R Cognitive Domain: Knowledge Answer Location: What Is a GUI? Difficulty Level: Easy 6. A(n) contains a collection of functions and some data for practice. a. application b. function c. package d. vector Ans: C Learning Objective: Learning Objective: 2.5: Learn a new language, R Cognitive Domain: Comprehension Answer Location: Packages and Functions in R Difficulty Level: Easy 7. A is a collection of commands that do some work for you. a. function b. vector c. package d. list Ans: A Learning Objective: Learning Objective: 2.5: Learn a new language, R Cognitive Domain: Knowledge Answer Location: Packages and Functions in R Difficulty Level: Easy 8. What symbol can you type before a function name to get help? a. \$ b. % C. *

d. ?

Learning Objective: 2.5: Learn a new language, R Cognitive Domain: Knowledge Answer Location: Have a Question? Use ? Difficulty Level: Easy
9. A(n)is anything created in R. a. object b. vector c. list d. data frame Ans: A Learning Objective: 2.5: Learn a new language, R Cognitive Domain: Knowledge Answer Location: Some Important Lingo Difficulty Level: Easy
10. A(n) is a collection of data that is the same type. a. object b. vector c. list d. data frame Ans: B Learning Objective: 2.5: Learn a new language, R Cognitive Domain: Application Answer Location: Some Important Lingo Difficulty Level: Easy
11. mean() and plot() are examples of a. objects b. arguments c. packages d. functions Ans: D Learning Objective: 2.5: Learn a new language, R Cognitive Domain: Application Answer Location: Some Important Lingo Difficulty Level: Easy
12. A(n)is what a function acts on. a. library b. argument c. package d. help Ans: B Learning Objective: 2.5: Learn a new language, R

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Cognitive Domain: Application Answer Location: Some Important Lingo Difficulty Level: Medium 13. A _____ is a collection of information that is arranged in rows and columns. a. function b. list c. vector d. data frame Ans: D Learning Objective: 2.5: Learn a new language, R Cognitive Domain: Application Answer Location: Some Important Lingo Difficulty Level: Medium 14. A _____ can contain many different types of objects. a. function b. matrix c. list d. mean Ans: C Learning Objective: 2.5: Learn a new language, R Cognitive Domain: Knowledge Answer Location: Some Important Lingo Difficulty Level: Easy 15. What is anything created in R? a. object b. vector c. list d. data frame Ans: A Learning Objective: 2.5: Learn a new language, R Cognitive Domain: Knowledge Answer Location: Some Important Lingo Difficulty Level: Easy 16. What is a collection of data that is the same type? a. object b. matrix c. list d. data frame Ans: B Learning Objective: 2.5: Learn a new language, R

Cognitive Domain: Application

Answer Location: Some Important Lingo

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Difficulty Level: Easy

17. What are mean() and plot() are examples of?

a. objects

b. arguments

c. packages

d. functions

Ans: D

Learning Objective: 2.5: Learn a new language, R

Cognitive Domain: Application

Answer Location: Some Important Lingo

Difficulty Level: Easy

18. What does a function act on?

a. library

b. argument

c. package

d. help

Ans: B

Learning Objective: 2.5: Learn a new language, R

Cognitive Domain: Application

Answer Location: Some Important Lingo

Difficulty Level: Medium

19. What is a collection of information that is arranged in rows and columns?

a. function

b. list

c. vector

d. data frame

Ans: D

Learning Objective: 2.5: Learn a new language, R

Cognitive Domain: Application

Answer Location: Some Important Lingo

Difficulty Level: Medium

20. What can contain many different types of objects?

a. function

b. matrix

c. list

d. mean

Ans: C

Learning Objective: 2.5: Learn a new language, R

Cognitive Domain: Knowledge

Answer Location: Some Important Lingo

Difficulty Level: Easy

21. A list a. is a collection of information that is arranged in rows and columns b. is a collection of data that is the same type c. can contain many different types of objects d. is anything created in R Ans: C Learning Objective: 2.5: Learn a new language, R Cognitive Domain: Knowledge Answer Location: Some Important Lingo Difficulty Level: Medium	
22. A data frame a. is a collection of information that is arranged in rows and columns b. is a collection of data that is the same type c. can contain many different types of objects d. is anything created in R Ans: A	
Learning Objective: 2.5: Learn a new language, R Cognitive Domain: Knowledge Answer Location: Some Important Lingo Difficulty Level: Medium	
23. An object a. is a collection of information that is arranged in rows and columns of its a collection of data that is the same type of contain many different types of objects of its anything created in R Ans: D Learning Objective: 2.5: Learn a new language, R Cognitive Domain: Knowledge Answer Location: Some Important Lingo Difficulty Level: Medium	
24. A matrix a. is a collection of information that is arranged in rows and columns b. is a collection of data that is a single type c. can contain many different types of objects d. is anything created in R Ans: B Learning Objective: 2.5: Learn a new language, R	
Cognitive Domain: Knowledge Answer Location: Some Important Lingo Difficulty Level: Medium	
25. A package is a. a collection of R commands to do a single task	

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b. a collection of functions and some data for practice c. a help file d. the output Ans: B Learning Objective: 2.5: Learn a new language, R Cognitive Domain: Comprehension Answer Location: Packages and Functions in R Difficulty Level: Easy 26. What is a function? a. a collection of commands that do some work for you b. a collection of help files and data sets c. an argument d. the output Ans: A Learning Objective: Learning how to use R. Cognitive Domain: Knowledge Answer Location: Packages and Functions in R Difficulty Level: Easy 27. A '?' placed before a(n) _____ returns help information. a. argument b. file c. object d. function Ans: D Learning Objective: 2.5: Learn a new language, R Cognitive Domain: Knowledge Answer Location: Have a Question? Use? Difficulty Level: Easy 28. A '??' placed before a word allows you to do this type of search. a. keyword b. forward c. backward d. function Ans: A Learning Objective: 2.5: Learn a new language, R Cognitive Domain: Knowledge Answer Location: Have a Question? Use? Difficulty Level: Easy 29. What character(s) do you type to run a keyword search of the help files? a. ?

b. ?? c. *

d. && Ans: B Learning Objective: 2.5: Learn a new language, R Cognitive Domain: Knowledge Answer Location: Have a Question? Use? Difficulty Level: Medium
30. R as a name stands for what? a. return b. R in Ross and Robert c. range d. run-away Ans: B Learning Objective: 2.1: Understanding what R is. Cognitive Domain: Knowledge Answer Location: A Very Short History of R Difficulty Level: Easy
31. R is a computing language. a. binary b. interpretative c. statistical d. calculating Ans: C Learning Objective: 2.1: Understanding what R is. Cognitive Domain: Knowledge Answer Location: A Very Short History of R Difficulty Level: Medium
32. R is also referred to as a. R base b. range c. S d. functions Ans: A Learning Objective: 2.1: Understanding what R is. Cognitive Domain: Knowledge Answer Location: A Very Short History of R Difficulty Level: Hard
33. What character(s) is the prompt in the R Console window? a. # b. ? c. > d. ?? Ans: C

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Learning Objective: 2.5: Learn a new language, R

Cognitive Domain: Knowledge Answer Location: Instant Startup

Difficulty Level: Medium

34. What are two pluses of using R?

a. free and open source

b. inexpensive and open source

c. free but confusing

d. open source and single platform

Ans: A

Learning Objective: 2.1: Understanding what R is.

Cognitive Domain: Knowledge Answer Location: Instant Startup

Difficulty Level: Easy

35. If someone says case matters in R, what do they mean?

- a. If the command in an example is in lowercase, the command needs to be entered the same way.
- b. If the command in an example is in lower case, it just needs to end in lowercase.
- c. If the command in an example is in lowercase, it needs to be entered as uppercase.
- d. If the command in an example is in lowercase, the first character should be uppercase and the rest is lowercase.

Ans: A

Learning Objective: 2.5: Learn a new language, R

Cognitive Domain: Knowledge

Answer Location: UPPERCASE Is Uppercase and lowercase is lowercase

Difficulty Level: Medium

- 36. After typing in a command, how do you get R to do something?
- a. hold down Ctrl
- b. hit Enter or Return, depending on your computer keyboard
- c. hit the Shift key
- d. hit the space bar

Ans: B

Learning Objective: 2.5: Learn a new language, R

Cognitive Domain: Knowledge

Answer Location: Enter or Return or Nothing

Difficulty Level: Easy

- 37. If help text is cryptic, what is the easiest thing can you do to figure out what to do?
- a. just start randomly entering commands
- b. give up
- c. keep reading the help text
- d. look at the example

Ans: D

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Learning Objective: 2.5: Learn a new language, R

Cognitive Domain: Knowledge

Answer Location: The Minuses of Using R

Difficulty Level: Medium

38. What does open source mean?

a. the source code is locked and you cannot change anything

b. open is the function for reading in source files

c. that means to open R on your computer

d. anyone with an idea of how to improve open source material can do so

Ans: D

Learning Objective: 2.1: Understanding what R is.

Cognitive Domain: Knowledge

Answer Location: A Short Note to You (and to Your Instructor) About Open Source

Difficulty Level: Medium

39. What does it mean that R is open source?

a. it is an open programming environment

b. the version of R changes on a regular basis

c. R is free

d. all of these

Ans: D

Learning Objective: 2.1: Understanding what R is.

Cognitive Domain: Knowledge

Answer Location: A Short Note to You (and to Your Instructor) About Open Source

Difficulty Level: Medium

40. What is the first thing you see when you open R on your computer?

a. RGui and RConsole

b. RGui

c. R Console

d. a blank screen

Ans: A

Learning Objective: 2.1: Understanding what R is.

Cognitive Domain: Application

Answer Location: Where to Find and Download R

Difficulty Level: Medium

41. What is the opening screen in the RGui called?

a. menu screen

b. R Console

c. text editor

d. command center

Ans: B

Learning Objective: 2.1: Understanding what R is.

Cognitive Domain: Application

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Answer Location: The Opening R Screen

Difficulty Level: Medium

- 42. If R returned '[1] 5' after you entered a command, what do 1 and 5 refer to?
- a. 1 is the first result and 5 is the second result.
- b. 1 is the result from our command and 5 is the line number.
- c. 1 is the line number and 5 is the result from our command.
- d. 1 is the start of the results and 5 is how many lines of results we should see.

Ans: C

Learning Objective: 2.1: Understanding what R is.

Cognitive Domain: Application

Answer Location: The Opening R Screen

Difficulty Level: Medium

- 43. is short-hand for graphical user interface.
- a. Windows
- b. GUI
- c. iPad
- d. Android

Ans: B

Learning Objective: 2.1: Understanding what R is.

Cognitive Domain: Knowledge Answer Location: What is a GUI?

Difficulty Level: Medium

- 44. Assembly language, used in early computers, was represented by _____.
- a. 1s or 0s
- b. instruction manuals
- c. hexadecimal numbers
- d. Fortran

Ans: A

Learning Objective: 2.1: Understanding what R is.

Cognitive Domain: Knowledge Answer Location: What is a GUI?

Difficulty Level: Medium

- 45. How many packages are available in R?
- a. 10
- b. 87
- c. thousands and thousands
- d. millions

Ans: C

Learning Objective: 2.1: Understanding what R is.

Cognitive Domain: Knowledge

Answer Location: Packages and Functions in R

46 contain functions and contain commands. a. Functions, packages b. help, packages c. Packages, functions d. Functions, libraries Ans: C Learning Objective: 2.1: Understanding what R is. Cognitive Domain: Knowledge Answer Location: Packages and Functions in R Difficulty Level: Medium
47. Functions begin with a directive and a. ? b. () c. * d. \$ Ans: B Learning Objective: 2.1: Understanding what R is. Cognitive Domain: Application Answer Location: Packages and Functions in R Difficulty Level: Hard
48. If you are creating a data set that consists of 20 scores for one variable named time, what is time? a. a package b. a help file c. a function d. an object Ans: D Learning Objective: 2.1: Understanding what R is. Cognitive Domain: Knowledge Answer Location: Some Important Lingo Difficulty Level: Medium
49. If you compute the product of 3 times 4 and store the results, what have you created? a. a function b. an object c. a help file d. a library Ans: B Learning Objective: 2.1: Understanding what R is. Cognitive Domain: Knowledge Answer Location: Some Important Lingo Difficulty Level: Easy

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50. What will R do if you store both numbers and text in a vector?

a. everything will be stored as text

b. numbers will be stored as numbers and text will be stored as text

c. text will be omitted

d. R will return an error message

Ans: A

Learning Objective: 2.1: Understanding what R is.

Cognitive Domain: Knowledge

Answer Location: Some Important Lingo

Difficulty Level: Medium

51. What is not an atomic vector type?

a. logical

b. binary

c. integer

d. character

Ans: B

Learning Objective: 2.1: Understanding what R is.

Cognitive Domain: Knowledge Answer Location: ATOMIC Vectors

Difficulty Level: Medium

52. What does the function mean() return?

a. a graph

b. an average of a set of values

c. a count of objects

d. nothing

Ans: B

Learning Objective: 2.1: Understanding what R is.

Cognitive Domain: Knowledge

Answer Location: Some Important Lingo

Difficulty Level: Medium

53. What does the function plot() return?

a. count of objects

b. an average of a set of values

c. another function

d. a graph

Ans: D

Learning Objective: 2.1: Understanding what R is.

Cognitive Domain: Knowledge

Answer Location: Some Important Lingo

Difficulty Level: Medium

54. In the command mean(x), what is x?

b. a package c. a file d. just the letter x Ans: A Learning Objective: 2.1: Understanding what R is. Cognitive Domain: Knowledge Answer Location: Some Important Lingo Difficulty Level: Medium
55. A data frame is a collection of and a. rows, columns b. functions, packages c. letters, numbers d. libraries, rows Ans: A Learning Objective: 2.1: Understanding what R is. Cognitive Domain: Knowledge Answer Location: Some Important Lingo Difficulty Level: Medium
56. A data frames and a can both organize data in rows and columns. a. vector b. matrix c. package d. function Ans: B Learning Objective: 2.1: Understanding what R is. Cognitive Domain: Knowledge Answer Location: Data Frame or Matrix Difficulty Level: Medium
57. When you download R you get a. packages and help files b. data sets c. data sets, packages, and extensive help d. an empty working environment Ans: C Learning Objective: 2.1: Understanding what R is. Cognitive Domain: Knowledge Answer Location: Some Important Lingo Difficulty Level: Medium
58. RStudio is referred to as an IDE, which stands for a. internet development environment b. integrated development environment

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c. integrated development examination
d. integrated dynamic environment
Ans: B
Learning Objective: 2.9: Understanding RStudio.
Cognitive Domain: Knowledge
Answer Location: RStudio
Difficulty Level: Hard

- 59. The file menu in RStudio can help _____.
- a. save files
- b. search your environment
- c. get help
- d. compile code

Ans: A

Learning Objective: 2.9: Understanding RStudio

Cognitive Domain: Application

Answer Location: File Difficulty Level: Medium

- 60. You can do the usual Cut, Copy, and Paste on this RStudio menu: _____.
- a. Help
- b. File
- c. Edit
- d. Code

Ans: C

Learning Objective: 2.9: Understanding RStudio

Cognitive Domain: Application

Answer Location: Edit Difficulty Level: Easy

True/False

1. R is free to install and use.

Ans: T

Learning Objective: 2.2: Understanding the pluses and minuses of using R.

Cognitive Domain: Knowledge

Answer Location: The Pluses of Using R

Difficulty Level: Easy

2. Use uppercase or lowercase letters when entering commands – it doesn't matter.

Ans: F

Learning Objective: 2.5: Learn a new language, R

Cognitive Domain: Knowledge

Answer Location: UPPERCASE Is Uppercase and lowercase is lowercase

Difficulty Level: Easy

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3. The only way to access help in R is through the Help menu.

Ans: F

Learning Objective: 2.5: Learn a new language, R

Cognitive Domain: Knowledge

Answer Location: Packages and Functions in R

Difficulty Level: Easy

4. Functions and packages refer to the same thing in R.

Ans: F

Learning Objective: 2.5: Learn a new language, R

Cognitive Domain: Knowledge

Answer Location: Packages and Functions in R

Difficulty Level: Easy

5. RStudio uses R already installed on the computer.

Ans: T

Learning Objective: 2.9: Understanding RStudio.

Cognitive Domain: Comprehension

Answer Location: RStudio Difficulty Level: Medium

6. R was the first statistical programming package.

Ans: F

Learning Objective: 2.9: Understanding RStudio.

Cognitive Domain: Knowledge

Answer Location: A Very Short History of R

Difficulty Level: Easy

7. There is only one way to perform every task in R.

Ans: F

Learning Objective: 2.9: Understanding RStudio.

Cognitive Domain: Knowledge

Answer Location: A Short Note to You (and to Your Instructor) About Open Source

(Again!)

Difficulty Level: Medium

8. R is open source.

Ans: T

Learning Objective: 2.9: Understanding RStudio.

Cognitive Domain: Knowledge

Answer Location: The Pluses of Using R

Difficulty Level: Easy

9. R can work on Windows, Mac, and Linux.

Ans: T

Learning Objective: 2.9: Understanding RStudio.

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Cognitive Domain: Comprehension

Answer Location: Other reasons to use R

Difficulty Level: Medium

10. A function is a collection of commands to perform a task.

Ans: T

Learning Objective: 2.9: Understanding RStudio.

Cognitive Domain: Comprehension

Answer Location: Packages and Functions in R

Difficulty Level: Medium

Short Answer

1. Name three of the benefits of using R.

Ans: R is free, produces great graphics, and works on Windows, Mac, and Linux.

Learning Objective: 2.9: Understanding RStudio.

Cognitive Domain: Knowledge

Answer Location: The Pluses of R; Other reasons to use R

Difficulty Level: Medium

2. What is R?

Ans: R is a statistical computing language.

Learning Objective: 2.1: Understanding what R is and a short history of where R came

from.

Cognitive Domain: Knowledge

Answer Location: A Very Short History of R

Difficulty Level: Medium

3. When someone says R is open source, what are they referring to?

Ans: Open source means that R is open to change from anyone who wants to change

or improve it for future users.

Learning Objective: 2.2: Understanding the pluses and minuses of using R

Cognitive Domain: Knowledge

Answer Location: A Short Note to You (and to Your Instructor) About Open Source

(Again!)

Difficulty Level: Medium

4. What does it mean to say that case matters in R?

Ans: R commands are case sensitive. For example, if a function is called mean, then you need to enter it as mean. Mean, MEAN, or any other variation will return an error message from R.

Learning Objective: 2.2: Understanding the pluses and minuses of using R Cognitive

Domain: Knowledge

Answer Location: UPPERCASE Is Uppercase and lowercase is lowercase

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5. What does GUI stand for and why is it useful?

Ans: GUI stands for graphical user interface, and GUIs allow users to more easily understand what needs to be done and how.

Learning Objective: 2.1: Understanding what R is and a short history of where R came

from.

Cognitive Domain: Knowledge Answer Location: What is a GUI?

Difficulty Level: Medium

6. What are functions and packages in R?

Ans: Functions are a collection of commands that perform a task. A package is a

collection of functions.

Learning Objective: 2.2: Understanding the pluses and minuses of using R

Cognitive Domain: Knowledge

Answer Location: Packages and Functions in R

Difficulty Level: Hard

7. What are three types of R objects that can store data?

Ans: The simplest object that can store data is a vector, which is typically a collection of letters or numbers. A data frame contains data in columns and rows. A matrix is like a data frame, in that it stores information in rows and columns but they all need to be the same type, like all numbers, all text fields, or all TRUE/FALSE.

Learning Objective: 2.2: Understanding the pluses and minuses of using R

Cognitive Domain: Knowledge

Answer Location: Some Important Lingo

Difficulty Level: Medium

8. What are R objects and what are 3 different types of objects?

Ans: An R object is anything that is created in R. Three common objects are vectors, data frames, and lists. You can also create objects by storing analysis results, multiplying two numbers and save the result, or storing scores in a variable. Learning Objective: 2.2: Understanding the pluses and minuses of using R

Cognitive Domain: Knowledge

Answer Location: Some Important Lingo

Difficulty Level: Medium

9. How can a user of R get help on a function?

Ans: The simplest way to get help is to type '?' before a function name. If you don't know the name of a function, you can type '??' before a word to do a keyword search. You can also go to the Help menu, which gives options such as help on the R Console, a FAQ on R, Manuals, R Functions, and several other help topics. You can also use the function help().

Learning Objective: 2.2: Understanding the pluses and minuses of using R

Cognitive Domain: Knowledge

Answer Location: Using R Help; Getting Help on Help; Have a Question? Use?

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10. Describe the elements of the following R commands and output.

> 2 + 3

[1] 5

Ans: The > is the prompt that is always present in the R Console when R is ready to process a new command. The command in this example is compute 2 + 3. The result from that command is shown on the next line. [1] is the line number of result, in this example 1, and 5 is the answer.

Learning Objective: 2.2: Understanding the pluses and minuses of using R

Cognitive Domain: Comprehension

Answer Location: The Opening R Screen