

Week 1 Quiz

10/10 points (100%)

Quiz, 10 questions

✓ **Congratulations! You passed!**

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points

1.

Which of the following is a principle of analytic graphics?

- ☐ Make judicious use of color in your scatterplots
- ☒ Show causality, mechanism, explanation

**Correct**

- ☐ Only do what your tools allow you to do
- ☐ Show box plots (univariate summaries)
- ☐ Don't plot more than two variables at a time

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points

2.

What is the role of exploratory graphs in data analysis?

- ☐ Only a few are constructed.
- ☐ They are made for formal presentations.
- ☐ Axes, legends, and other details are clean and exactly detailed.
- ☒ They are typically made very quickly.



Correct

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3.

Which of the following is true about the base plotting system?



The system is most useful for conditioning plots



Plots are created and annotated with separate functions

**Correct**

Functions like 'plot' or 'hist' typically create the plot on the graphics device and functions like 'lines', 'text', or 'points' will annotate or add data to the plot.



Margins and spacings are adjusted automatically depending on the type of plot and the data

Plots are typically created with a single function call

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4.

Which of the following is an example of a valid graphics device in R?



A PNG file

**Correct**

A file folder



A socket connection



A Microsoft Word document



The keyboard

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5.

Which of the following is an example of a vector graphics device in R?



Postscript

**Correct**

PNG



JPEG



TIFF



GIF

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points

6.

Bitmapped file formats can be most useful for



Plots that may need to be resized



Plots that are not scaled to a specific resolution



Plots that require animation or interactivity



Scatterplots with many many points

**Correct**1 / 1
points

7.

Which of the following functions is typically used to add elements to a plot in the base graphics system?

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- ☐ plot()
- ☐ boxplot()
- ☐ hist()
- ☒ text()



Correct



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points

8.

Which function opens the screen graphics device for the Mac?

- ☐ pdf()
- ☐ png()
- ☐ bitmap()
- ☒ quartz()



Correct



1 / 1
points

9.

What does the 'pch' option to par() control?

- ☐ the size of the plotting symbol in a scatterplot
- ☒ the plotting symbol/character in the base graphics system



Correct

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the line width in the base graphics system

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the orientation of the axis labels on the plot



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points

10.

If I want to save a plot to a PDF file, which of the following is a correct way of doing that?



Open the screen device with `quartz()`, construct the plot, and then close the device with `dev.off()`.



Construct the plot on the PNG device with `png()`, then copy it to a PDF with `dev.copy2pdf()`.



Construct the plot on the screen device and then copy it to a PDF file with `dev.copy2pdf()`



Correct



Open the PostScript device with `postscript()`, construct the plot, then close the device with `dev.off()`.

