



Feedback — Week 1 Quiz

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You submitted this quiz on **Sun 10 May 2015 7:25 AM PDT**. You got a score of **10.00** out of **10.00**.

Question 1

Suppose I conduct a study and publish my findings. Which of the following is an example of a replication of my study?

Your Answer	Score	Explanation
<ul style="list-style-type: none"><input type="radio"/> I take my own data, analyze it again, and publish new findings.<input checked="" type="radio"/> An investigator at another institution conducts a study addressing the same question, collects her own data, analyzes it separately from me, and publishes her own findings. ✓ 1.00<input type="radio"/> An investigator at another institution conducts a study addressing a different scientific question and publishes her findings.<input type="radio"/> I give my data to an independent investigator at another institution, she analyzes the data and gets the same results as I originally obtained.		

Total

1.00 /
1.00

Question 2

Which of the following is a requirement for a published data analysis to be reproducible?

Your Answer	Score	Explanation
<ul style="list-style-type: none"><input type="radio"/> The analysis is conducted on a variant of the Unix operating system.		

- The investigator makes available his computer, on which the analysis was originally conducted.
- The investigator's final publication is made available free of charge.

- The full computer code for doing the data analysis is made publicly available. ✓ 1.00

Total 1.00 /
1.00

Question 3

Which of the following is an example of a reproducible study?

- | Your Answer | Score | Explanation |
|---|-------|-------------|
| <ul style="list-style-type: none"><input type="radio"/> The study's original authors re-run their computer code on their analytic data and confirm publicly that the findings match those of the published results.<input checked="" type="radio"/> The study's analytic data and computer code for the data analysis are publicly available. When the code is run on the analytic data, the findings are identical to the published results. ✓ 1.00<input type="radio"/> The study's analytic data and computer code are not publicly available, but the study was simple enough to be repeated by an independent investigator.<input type="radio"/> The study's analytic data are publicly available, but the computer code is not. | | |

Total 1.00 /
1.00

Question 4

Which of the following is a reason that a study might NOT be fully **replicated**?

- | Your Answer | Score | Explanation |
|-------------|-------|-------------|
|-------------|-------|-------------|

- The original study was published in a high impact journal and is considered authoritative.

- The original study was very expensive and there is no money to repeat it in a different setting. ✓ 1.00

- The original investigator does not want to make the analytic data available.

- The original study had null findings.

Total	1.00 /
	1.00

Question 5

Which of the following is a reason why publishing **reproducible research** is increasingly important?

Your Answer	Score	Explanation
<input type="radio"/> Most studies today are small-scale and easily replicated.		
<input type="radio"/> The statistical methods for most studies can be accurately described using plain language.		
<input type="radio"/> Computing power is limited today, making it difficult to apply sophisticated statistical methods.		
<input checked="" type="radio"/> New technologies are increasing the rate of data collection, creating datasets that are more complex and extremely high dimensional.	✓ 1.00	

Total	1.00 /
	1.00

Question 6

What is the role of *processing code* in the research pipeline?

Your Answer	Score	Explanation
<input checked="" type="radio"/> It transforms the measured data into analytic data.	✓ 1.00	

- It transforms the computational results into figures and tables.
- It conducts the statistical analysis of the primary outcome.
- It transforms the analytic data into computational results.

Total

1.00 / 1.00

Question 7

Which is a goal of literate statistical programming?

Your Answer	Score	Explanation
<input type="radio"/> Require that data analysis summaries are always written in LaTeX.		
<input checked="" type="radio"/> Combine explanatory text and data analysis code in a single document.	✓ 1.00	
<input type="radio"/> Separate figures and tables from other data analytic summaries.		
<input type="radio"/> Ensure that data analysis documents are always exported in PDF format.		
Total	1.00 / 1.00	

Question 8

What does it mean to weave a literate statistical program?

Your Answer	Score	Explanation
<input type="radio"/> Transform a literate program from R to python.		
<input type="radio"/> Compress the literate program so that it takes up less space.		
<input checked="" type="radio"/> Transform the literate program into a human readable document.	✓ 1.00	
<input type="radio"/> Transform the literate program into a machine readable code file.		
Total	1.00 / 1.00	

Question 9

Which of the following is required to implement a literate programming system?

Your Answer	Score	Explanation
<input type="radio"/> A web server for publishing documents.		
<input type="radio"/> A program that views PDF files.		
<input checked="" type="radio"/> A documentation language like LaTeX.	✓ 1.00	
<input type="radio"/> A Unix-based computer system.		
Total	1.00 / 1.00	

Question 10

What is one way in which the knitr system differs from Sweave?

Your Answer	Score	Explanation
<input type="radio"/> knitr lacks features like caching of code chunks.		
<input type="radio"/> knitr was developed by Friedrich Leisch.		

knitr allows for the use of markdown instead of LaTeX.

✓ 1.00

knitr is written in python instead of R.

Total

1.00 / 1.00

