Homework 1: A. Short answer Data Fundamentals Talking Data

plural

A. Short answer B. Empirical exercise Submission

Start Over

Question 1: The term data is (singlular/plural) _____.

Correct! Question 2: A data set is made up of ____ that contain information on a specific entity. records

Correct!

Question 3: Each record is made of _____ that contain measurements of known types. fields

Correct! Question 4:

A data table is made up of rows containing _____ and columns containing _____. observations, variables Correct!

Question 5: We say that data are tidy if each variable corresponds to a _____, each row an _____, and

each cell a _____.

column, observation, single value Correct! Question 6: A quick-serve restaurant chain records sales, staffing and customer traffic every day for

each store. You recognize this as a ____ data set where the unit of observation is the

store-day.

panel Correct! Continue

We distinguish 4 stages of data analysis and refer to them compactly as ____ (in all caps).

Question 8:

Name the stages.

Question 7:

ATAC Correct!

acquisition, transformation, analysis, communication

✓ Data Value Chain

Question 9:

Correct!

The second stage involves, among other things, making sure the data are ____ (as the Posit folks would say). tidy Correct!

Question 11:

Correct!

Question 10:

A variable will not have ____ if it does not measure what it is supposed to. validity Correct! Question 12:

Question 13:

to introduce it to the market. Randomly surveying customer who purchased the product in the initial discount period (would/would not) _____ generate a sample representing the population of typical customers. would not Correct!

It is advisable to ____ the acquisition, transformation and analysis tasks.

Another reason reproducibility matters to guard against _____ and _____.

A national company has developed a new product and is offering it for sale at a discount

Correct! Question 15:

separate

One reason reproducibility matters is to protect and support your ____ self. future

✓ Reproducibility

Correct! Question 17: One important component is describing the exact ____ of your raw input data.

product Correct!

Data Documentation

Continue

Question 19: A ____ is a representation of the data structure comprising all of the attributes of the data and their types. schema Correct!

key variables Correct!

trillion Correct! Question 23: R stores real numbers as a ____ data type and allocates ___ bytes of data to each number.

that.

131072, million

Correct!

Continue

num, 8

Correct!

Next Topic

In the third stage, the workhorse will be the _____. conditional expectation function

How to handle missing data depends on whether they are missing _____. endogenously Correct!

Question 14:

Continue

Correct!

Question 16:

error, fraud

provenance

Correct!

Question 18: You should view a reproducible analysis as a _____ that you should be able to produce again and again.

Question 20: This representation of the data structure identifies the ____ to which each observation pertains.

entity

Correct!

Question 21:

observation.

Question 22: A terabyte is equal to a _____ bytes.

This representation of the data also makes clear what are the ____ that identify an

Question 24: A megabyte can store _____ num values, while a terabye can store roughly a _____ times