Chapter 1 Module Quiz

Due 7 Jun at 23:59

Points 15

Questions 15

Available until 12 Jun at 23:59

Time limit None

Instructions

This is a graded quiz worth 1% of your course grade. The quiz covers the key learning objectives of Chapter 1.

Score for this quiz: 15 out of 15

Submitted 31 May at 2:33 This attempt took 4 minutes.

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	Question 1	1 / 1 pts
	Heart rate is an example of which type of variable?	
	O Nominal	
	Ordinal	
	O Interval	
orrect!	Ratio	

Question 2

1 / 1 pts

The Australian tropical cyclone intensity scale is an example of which type of variable?

	O Nominal	
Correct!	Ordinal	
	O Interval	
	Ratio	

	Question 3	1 / 1 pts
	Blood type is an example of which type of variable?	
Correct!	Nominal	
	Ordinal	
	○ Interval	
	O Ratio	

	Question 4	pts
	Which of the following variables is an example of a discrete random variable?	
Correct!	Number of children in a family	
	Carbon dioxide emissions (CO2 g/km)	
	O Density (kg/m3)	
	○ Volume (m3)	

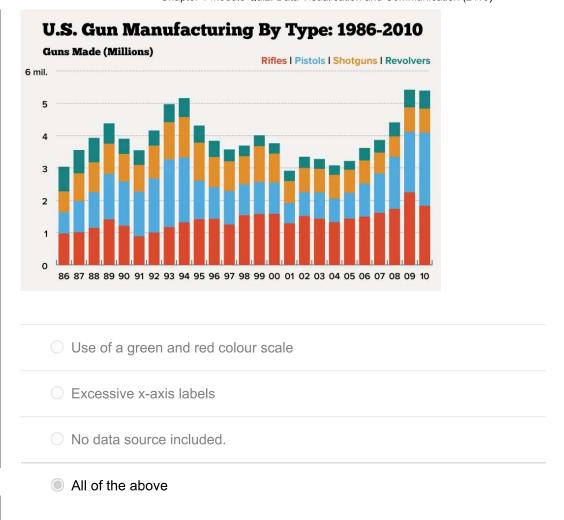
	Question 5	1 / 1 pts
	Which one of the following is NOT a reason that we visualise data?	
Correct!	To replace formal statistical tests	
	To explore our data	
	To help communicate our findings	
	To check our hypotheses and assumptions	

Question 6 There are many specific advantages to visualising data. Which one of the following is NOT a recognised benefit? Detect outliers Detect patterns and interesting trends Highlight the complexity of data Screen vast amounts of data

Question 7 1 / 1 pts

Consider the following bar chart (taken from here (here (here

Correct!



According to Andy Kirk's structured design process to data visualisation, which task often consumes the most amount of time? Setting the purpose of the data visualisation Deciding on an appropriate method to visualise the data Correct! Constructing the data visualisation using visualisation software.

1 / 1 pts **Question 9** Consider the following data visualisation taken from www.caranddriver.com (http://www.caranddriver.com/reviews/2017-chevrolet-bolt-ev-in-depth-model-review-2017-chevrolet-bolt-ev-fuel-economy-review-car-and-driver-page-3). **J**fuel-econ-bolt.jpg Which primary question does this visualisation fail according to the Trifecta checkup? Question Data Correct! Visuals All three Primarily visuals. The x axis scale is not consistent. Note that the distance between 0 - 30 really large relative to 30 - 80 MPG. This is visually misleading. Primarily visuals. The x axis scale is not consistent. Note that the distance between 0 - 30 really large relative to 30 - 80 MPG. This is visually misleading.

Andy Kirk defines four key objectives when designing a data visualisation. Which one of the following objectives is NOT one of Andy's four? Strive for form over function Justify the selection of everything you do

Never deceive the receiver	
Creating accessibility through intuitive design	

	Question 11	1 / 1 pts
	The Health Star Rating system developed by the Australian government is example of which type of data? healthstar.jpg	an
	○ Nominal	
Correct!	Ordinal	
	○ Interval	
	○ Ratio	

-	Question 12	1 pts
	Which of the following questions is NOT included in Kaiser Fung's trifecta check	-up?
	○ What is the question?	
	○ What does the data say?	
	○ What does the visual say?	
Correct!	What was the sample size?	

	Question 13	1 pts
	Which one of the following is NOT one of the major ethical principles of data visualisation discussed in the text?	
	Beneficence	
	Transparency	
Correct!	Data Quality	
	Respect	

	Question 14 1 / 1 pts
	Consider the following data visualisation. There is one major issue. According to the Data Visualisation Checklist, which one of the following sections does this issue fall under? (Source: https://www.flickr.com/photos/norbury/25720739157/in/dateposted-public/lightbox/) embellishment.jpg
	○ Text
Correct!	Arrangement
	O Colour
	Overall

Question 15	1 / 1 pts

	When is it OK to use data from an external source for the purpose of data visualisation?
	When you have permission or a licence to use the data
	When the data have been collected in an ethical way and consent is clear.
	When the data are of acceptable quality.
Correct!	All of the above conditions must be met.

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