Week 1

latest submission grade 100%

۱.	We have seen that the modern age is largely being driven by data. Which of the following is NOT a factor contributing to data being "the new oil"?
	Modern technological advances allow data to be collected in a much larger scale than before.
	Businesses are starting to realise that existing (and new) data can generate valuable insights to help them make better decisions.
	Increasingly sophisticated statistical models and software are being developed to handle large volumes of data.
	Modern technological advances, in particular advances in processing power, allow more sophisticated analyses of much larger datasets.
	✓ Correct
	Correct. Advanced statistical models and software for handling data are more of a consequence than a cause for the importance of data.
2.	Which of the following is NOT a reason for the boom in data-related jobs?
	The idea of (and ability to) studying large amounts of data (in the context of this course) is still relatively new. The supply of data scientists has not kept up with demand.
	The correct use of data can lead to highly profitable decisions.
	Being able to work with data is a highly transferable skillset; the skills of an individual data scientist (say) are not restricted to any single industry.
	Many businesses have accumulated large amounts of data that was previously unused.
	 Correct Correct. The fluidity of the data science skillset would affect the supply of data scientists, not the demand for them.
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3.	
	What is involved in the process of "data cleaning"? Select the option that best describes this term.
	If the data is missing some values, then you will either need to estimate those values or delete the entry corresponding to that missing value.

	If the data available to you is not in a nicely structured format, then you will have to edit the data into a better format that will allow further analysis.
	Your data may have genuinely erroneous entries, and you will need to either delete those entries or correct them.
	All of the above.
	Correct. Watch the video: Data value chain
4.	Which of the following is NOT an example of collecting data, in the context of this course?
	Supermarket reward programs that track what shoppers are buying.
	Internet service providers (ISP's) collecting metadata on websites visited, duration, etc. by their customers.
	A company using existing sales records and client data to advertise to existing customers.
	A bank recording your spending on a credit card.
	Correct Because the company is using EXISTING records, no new data is being collected here. Watch the video: Data value chain
5.	Which of the following is the clearest example of generating an insight from data that has been collected, in the context of this course?
	A sales manager brought in from another country to restructure the sales department.
	A social media site collecting data on the advertisements you click in order to decide which future advertisements to display.
	An architect asking their client about their needs before drafting plans for a new building.
	A large construction company keeping detailed records of their previous projects and clients.
	✓ Correct Correct.
6.	Which of the following is NOT a good reason for why a data analyst/scientist may generate 1 / 1 point

visualisations from a dataset?

1 / 1 point

A pie chart would be inappropriate as we are looking for the trend of mileage across the number of cylinders.