

Statistics Introduction – PPDAC

Task 1A - Scrambled Sentences

Group Member 1	Group Member 2	Group Member 3
01 him was worried she always	01 circles silver in she twirled	01 steady me he for waited
02 from Florida oranges temperature	02 door grandmother the sunlight opened	02 late road detours make drivers
03 ball the throw toss silently	03 pictures they landscape thinner painted	03 sleeps often dog bowl the
04 shoes give replace old the	04 shines hair gray brush her	04 stairs the entrance museum had
05 he observes occasionally people watches	05 lies nap dog my down	05 wood old slightly houses lean
06 be will sweat lonely they	06 jam carefully jars white open	06 be smell can dusty antiques
07 sky the seamless gray is	07 twice cake read recipes	07 past elephants the gentle remember
08 should now withdraw forgetful we	08 mashed deliberate yummy potatoes are	08 pages covers aged crack book
09 us bingo sing play let	09 dishes now dried slowly she	09 success numbers declining chart mean
10 sunlight makes temperature wrinkle raisins	10 enjoy listen retired music people	10 kernels peck spring chickens corn

When you are done: This study isn't about what you think. What are the researchers really looking for?

Task 1D – Implicit Association Test (IAT)

Use your finger to assign each name to the category to which it belongs by tapping either to the left or to the right of the word. Do it as quickly as you can. Don't skip over words. And don't worry if you make any mistakes.

Warm up

Male		Female
	John	
	Bob	
	Amy	
	Holly	
	Joan	
	Derek	
	Peggy	
	Jason	
	Lisa	
	Matt	
	Sarah	

Work/Family IAT part 1

Male or Career		Female or Family
	Lisa	
	Matt	
	Laundry	
	Entrepreneur	
	John	
	Merchant	
	Bob	
	Capitalist	
	Holly	
	John	
	Home	
	Corporation	
	Siblings	
	Peggy	
	Jason	
	Kitchen	
	Housework	
	Parents	
	Sarah	
	Derek	

Work/Family IAT part 2

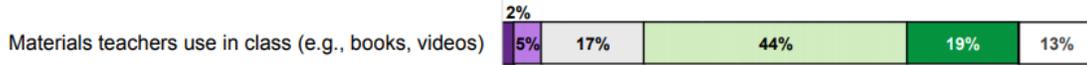
Male or Family		Female or Career
	Babies	
	Sarah	
	Derek	
	Merchant	
	Employment	
	John	
	Bob	
	Holly	
	Domestic	
	Entrepreneur	
	Office	
	Joan	
	Peggy	
	Cousins	
	Grandparents	
	Jason	
	Home	
	Lisa	
	Corporation	
	Matt	

Task 1B – Variables

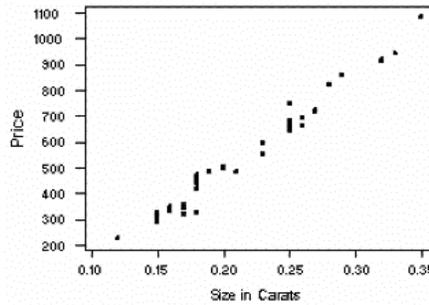
Classify each as descriptive or causal. Identify the variables used in each.

Example 1: In 2017, the Peel District School board conducted a student survey to find out how much diversity was being used in examples in class. The results were released in 2018:

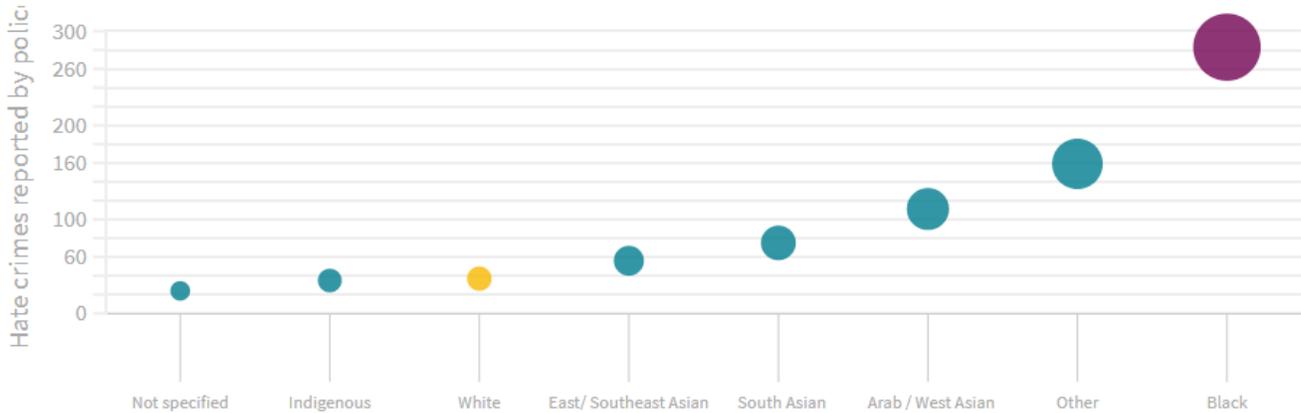
Question 16: At my school, I feel people like me are reflected positively in:



Example 2: In 1992, a Singapore-based diamond jewelry retailer placed an ad in the Straits Times advertising the prices for various diamonds.



Example 3: In 2018, Black Canadians were more likely than any other racial group in Canada to be the victims of a hate crime, according to data reported by police. This data was collected by Statistics Canada using data from the Canadian Centre for Justice and Community Safety Statistics and their Incident-based Uniform Crime Reporting Survey.

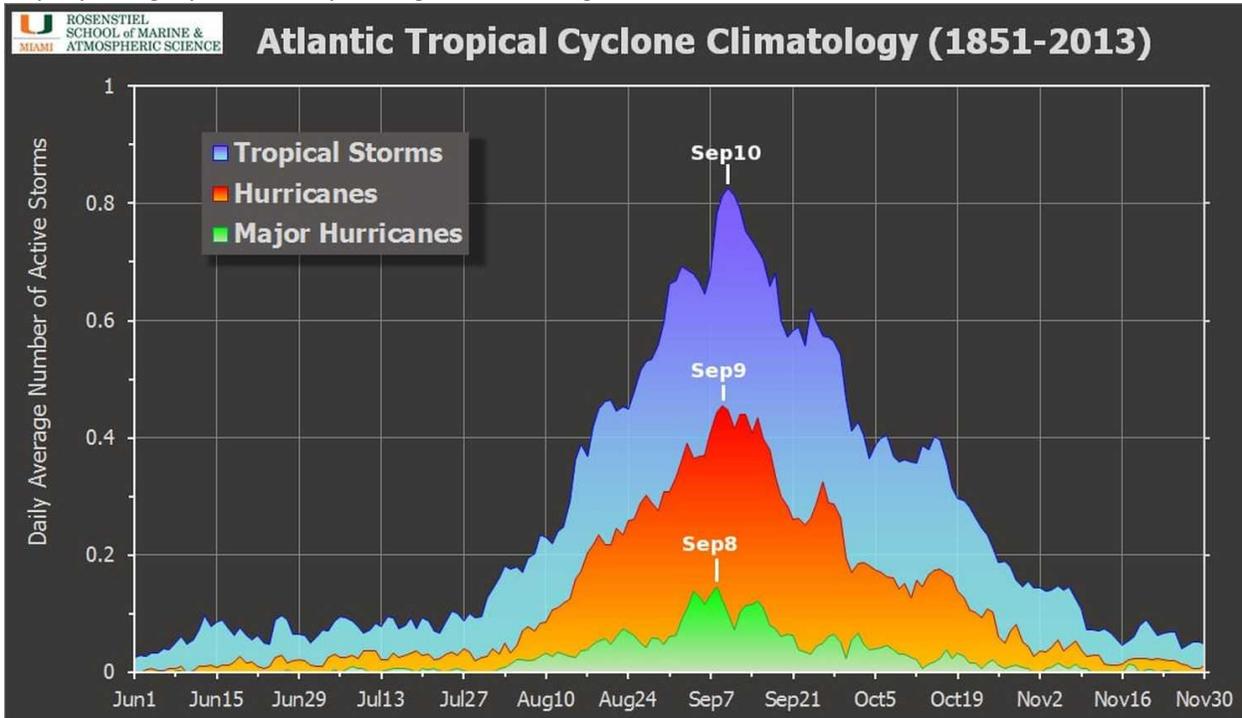


Example 4: In 2017, based on the 2016 census data of Canada, StatsCan released these numbers in its report “Does education pay? A comparison of earnings by level of education”.

Table 1
Median annual earnings of women and men aged 25 to 64 who worked full time and full year as paid employees, by highest level of education and province or territory, 2015

Highest certificate, diploma or degree	High school diploma	Apprenticeship certificate	College diploma	Bachelor's degree
	dollars			
Women	43,254	38,230	48,599	68,342
Men	55,774	72,955	67,965	82,082

Example 5: Researchers looked at each date over between 1851 and 2013. They recorded the number of active storms on each day, by category. Then, they averaged them using the date.



Task 1A – Scrambled Sentences Matching, Part 2

Put the tasks in order.

Assign each task a name from the list – they are not in order..

Task Names (no order)	Task (not in order)												
Data	<i>Task V:</i> Choose to research: “How does priming with words associated with old age affect the speed at which you walk?” Also, Choose Variables: (1) Entrance speed, (2) Exit speed (3) Primed with Old Age Words or Isn’t												
Conclusions	<i>Task W:</i> Divide the data into two groups: Primed with old age words or not. Calculate the difference between entry and exit speeds. Average the difference for both groups.												
Problem	<i>Task X:</i> Decide to advertise to local people via social media ads. Plan that when people arrive, randomly assign them be primed with old age words or not. Figure out how to time their entrance into the room and their exit from the room.												
Analysis	<i>Task Y:</i> In the report, write that on average, the group who was primed with old age words walked more slowly down the hall to hand in their answers than those who weren’t. Subconscious priming can impact walking speed.												
Plan	<p><i>Task Z:</i> For 52 participants, repeat the study and collect the results in a table:</p> <table border="1"> <thead> <tr> <th>Participant</th> <th>Time to Enter</th> <th>Time to exit</th> <th>Old Age Priming</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3.2 sec</td> <td>3.5 sec</td> <td>N</td> </tr> <tr> <td>2</td> <td>3.4 sec</td> <td>4.5 sec</td> <td>Y</td> </tr> </tbody> </table>	Participant	Time to Enter	Time to exit	Old Age Priming	1	3.2 sec	3.5 sec	N	2	3.4 sec	4.5 sec	Y
Participant	Time to Enter	Time to exit	Old Age Priming										
1	3.2 sec	3.5 sec	N										
2	3.4 sec	4.5 sec	Y										

Task 1C – Variables, Conclusions, Biases

