Consulting in Statistics and Data Science
2024 – Preliminary Quiz

1. Suppose we have the following table giving the number of people in a study that plan to get a COVID-19 vaccination by age.

Vaccinate	Age less than 40	Age 40 or more
Yes	30	60
Maybe	10	15
No	10	5

Analyse these data, write a short report of no more than one page and state your conclusions.

2. The weight loss of a sample people on a low carb diet is compared with a sample who use a normal diet over a 12-month period. The results are as follows, in kgs

Low Carb Diet	Normal Diet
3.5	2.1
4,5	1.1
-1.2	0.5
6.2	3.6
3.8	0.5
2.0	-1.0
3.5	
4.9	

Analyse these data, write a short report of no more than one page and state your conclusions.

3. The following data give the annual retail sales of a sample of small businesses and their expenditure on advertising, measured in $000s.

Sales	Adverting Expenditure
302	12
410	21
102	5
89	8
154	15
210	15
698	48
69	0
99	3
24	0

Analyse these data, write a short report of no more than one page and state your conclusions.
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