

# MyWriterMaster

Freelance Academic Writing



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## Expert Qualification Test

### Statistics

We are glad to offer you this EQT to test your subject matter depth and word doc formatting skills before taking you in our freelance expert writing team.

#### You will be judged on these aspects

- 1. Plagiarism and referencing:** Plagiarism (Copy pasting from external sources) is a strict offense and will result in cancellation of your solution straight away. Please note that all the assignments undergo a plagiarism test using Turnitin software and a content review from our expert reviewers before sending it to the client.
- 2. 8 word doc formatting.**
- 3. Relevant content:** The solution should be to the point and as per the questions asked.
- 4. Written English language:** Your solution should have correct grammar and sentence formation etc.
- 5. Commitment to word limits and deadline.**

*If you have any doubts regarding the above 4 points please refer  
<http://mywritingmaster.in/writing-methodology/>*

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*Start*

#### Test assignment question 1: Hypothesis testing

36 cans from a soft drink dispenser give an average content of 21.9 decilitres and sample variance  $S_2=1.42$ . Could the manufacture reasonably assert that the average content of a can is 22.2 decilitres?

#### Test assignment question 2: Regression analysis

The following data are UK primary fuel consumption (coal equivalent) for each quarter from 1980 quarter 1 to 1984 quarter 2 inclusive

Year	1	2	3	4
1980	1001	759	969	871
1981	919	720	633	900
1982	927	704	630	857
1983	912	725	635	847
1984	938	692		

*(You will need Excel to plot the data in part i) and make sure you copy this chart from there in your answer to this part)*

- Plot the data-is there any evidence of a trend?
- A regression line of consumption on quarter was fitted using a computer package and the line  $Y=882.54 - 7.291x$  obtained. Use a computer to confirm this result. What is the value of  $R^2$  ( $R^2$  is R squared)? Why is  $R^2$  so low?

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*End*