

MATH6200  
DATA ANALYSIS

COURSE PROJECT

Direction; Make a **video presentation** and solve the given problem below.

- A. Is there a significant relationship between insomnia and job performance of the respondents?
- B. Is there a significant difference in the level of sleep quality when they grouped according to sex?
- C. Is there a significant difference in the level of job performance when they grouped according to sex?

	Sex	Sleep Quality	Job performance		Sex	Sleep Quality	Job performance
1	Female	24	60	16	Female	19	70
2	Female	24	80	17	Female	21	80
3	Female	7	61	18	Female	18	80
4	Female	9	61	19	Male	18	80
5	Female	24	61	20	Male	15	74
6	Female	27	61	21	Male	20	75
7	Female	22	60	22	Male	13	79
8	Female	16	60	23	Male	6	78
9	Female	23	72	24	Male	15	78
10	Female	19	71	25	Male	19	80
11	Female	22	80	26	Male	7	80
12	Female	28	70	27	Male	15	61
13	Female	28	60	28	Male	10	80
14	Female	21	79	29	Male	18	61
15	Female	19	78	30	Male	23	78

Sleep Quality Scoring Guide

- 0 – 7 - “no clinically significant insomnia,”
- 8 – 14 - “sub threshold insomnia,”
- 15 – 21 - “clinical insomnia (moderate severity),”
- 22 – 28 - “clinical insomnia (severe),”

Job Performance Scoring Guide

- 0 – 20 - Fail
- 21 – 40 - Not Good
- 41 – 60 - Meet the expectation
- 61 – 80 - Exceed the expectation

Criteria for grading:

- Presentations** 60%  
(Show mastery of the content)
- Interpretation** 30%  
(Clearly interpret the result of statistical analysis)

Conclusion	10%
(Provide a general interpretation for the computed statistical analysis)	
Total	100%