

Statistics Assignment

By KAVI RANAWAKA, Kithmini Wehella and Vinuri De Silva



Our questions

- How many hours of sleep did you get last night?
- What do you aspire to be in the future?

Survey Questions

- Careers Survey**
- Survey on Sleeping Hours**

Analysis

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That's all Folks!



Results

Pie Charts for Careers Survey

Career Aspirations Year 9

According to the pie chart shown, we can compare the career aspirations of 10 Year 9s and 20 Year 10s. The results are summarized in a table of career opportunities. In Year 9's survey, 7 out of the 11 categories have no responses. We can observe that the Year 10s show a higher interest in career paths other than Health and Language compared to the Year 9s.

Career	Year 9	Year 10
Health	0	1
Education	1	2
Science	1	2
Arts	1	2
Engineering	1	2
Business	1	2
Health	1	2
Language	1	2
Other	0	0

Career Aspirations Year 10

According to the pie chart shown, we can compare the career aspirations of 10 Year 9s and 20 Year 10s. The results are summarized in a table of career opportunities. In Year 9's survey, 7 out of the 11 categories have no responses. We can observe that the Year 10s show a higher interest in career paths other than Health and Language compared to the Year 9s.

Career	Year 9	Year 10
Health	0	1
Education	1	2
Science	1	2
Arts	1	2
Engineering	1	2
Business	1	2
Health	1	2
Language	1	2
Other	0	0

Comparison

Hours of Sleep: Comparison of Year 9 & Year 10

According to the graph where we compared the hours of sleep for Year 9 and 10 students, the results are the same. Therefore, we can conclude that both Year 9s and Year 10s sleep the same number of hours.

Statistic	Year 9	Year 10
Mean	7.55	7.35
Median	8	8
Mode	9	8
Range	4	4
Lower Quartile	7	7
Inter Quartile	8	8
Upper Quartile	8	8

Histograms

Hours of Sleep Year 9

Hours of Sleep Year 10

Back-to-back stem and leaf plot

Year 9	Stem	Year 10
6 6 6 7 7 7 7 7 8 8 8 8 8 8 9 9 9 9 9 9	6	6 6 6 7 7 7 7 7 8 8 8 8 8 9 9 9 9 9 9
0 1		0 1

Box And Whisker Plot

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Our questions

- How many hours of sleep did you get last night?
- What do you aspire to be in the future?

Important Details
All of the people who were surveyed were either from Year 9 or 10

Survey Questions

- Careers Survey**
What's your age?
What year level?
What school are you interested in?
- Survey on Sleeping Hours**
What's your age?
How many hours of sleep did you get last night?

Map
Map of the area around Westpac Centre High School, showing streets like Westpac Centre, Westpac Centre High School, and Westpac Centre.

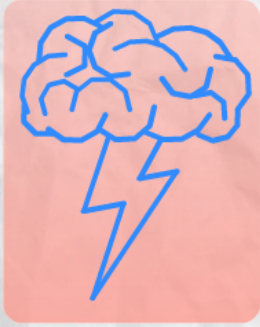
Analysis

- Comment on the centre and spread of each:**
The hours of sleep survey's mean for both Year levels was 5.5, indicating that the range was 4, and the data had a mean spread of 7 and 8 for the upper quartile. This is the upper quartile. This is the upper quartile. This is the upper quartile.
- Students encountered a problem:**
The first main problem that we saw in a survey assignment was... completing the project was very challenging and... We were able to complete our project... and... We were able to complete our project... and... We were able to complete our project... and...

Doodles

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Our questions



How many hours of sleep did you get last night?

What do you aspire to be in the future?

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Important Details

All of the people
who were
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Survey Questions



Survey



Survey of
Sleeping

Survey on

Sleeping Hours

What's your age?

What's your year level?

How many hours of sleep did you get last night?

How did you feel this morning?



Careers Survey

What's your age?

What year level?

What subjects are you interested in?

What do you aspire to be in the future?

Results

Career	Year 9	Year 10
Health	4	7
Engineering	1	
Music/Performance	2	
Law	1	2
Language	1	1
Science	2	1
Food	1	
Politics	1	
Art		
Education		