

Statistical Analysis Report



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Case Study

The following presentation will be based on the information of a case study on a particular classroom as provided by the instructor of University of Phoenix EDU 581 Action Research and Evaluation class. Based on this information, a statistical analysis will be performed. In particular, several pieces of descriptive statistics will be provided such as a pie chart depicting the number of boys and girls in the class and a scatterplot diagram illustrating the Reading scores for the class. In addition, the mean, median, and mode for the Reading, Math, and Writing Homework/Assignments grades for the class will be calculated and a determination will be made as to whether or not a normal distribution for the Reading, Math, and Writing report card grades are present. An analysis of the purpose of the descriptive statistics used will be provided as well as a sentence that describes the relationship between student absences and Math grades. The information from the case study being used for this presentation can be found on the next slide.

Class Distribution

According to the information provided there are an equal amount of boys and girls in the class. The number of boys and girls is 10 each. The total number of students in the class is 20. The class is evenly split between the two genders.



Reading

The calculated mean for the Reading grades was 82.6, the median was 90, and the mode was 99.



Statistical methods are a great way to summarize the data and explore the relationships in studies. However, a statistical analysis of data was presented through descriptive statistical methods. In particular, the chart depicts the number of boys and girls in the class and a scatterplot diagram illustrating the Reading scores for the class was presented. The mean, median, and mode for the Reading, Math, and Writing Homework/Assignments grades for the class were also calculated and a determination was made as to whether or not a normal distribution for the Reading, Math, and Writing report card grades are present. In addition, the relationship between student absences and Math grades was discussed.

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Distribution for Report Card Grades

The descriptive statistics used were the mean, median, and mode. It was noted that the distribution of the data was not normal. The data was skewed to the right. The mean was 82.6, the median was 90, and the mode was 99.

Student	Reading	Math	Writing	Absences
1	85	78	82	2
2	90	85	88	1
3	78	72	75	3
4	92	88	90	1
5	88	82	85	2
6	95	90	92	1
7	80	75	78	2
8	98	92	95	1
9	82	78	80	2
10	90	85	88	1
11	75	70	72	3
12	93	88	90	1
13	87	80	83	2
14	91	86	89	1
15	79	74	77	2
16	94	89	91	1
17	83	77	80	2
18	96	91	93	1
19	81	76	79	2
20	97	92	94	1

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