

### Statistical Report Writing Sample No.4.

**Introduction.** A federal regulatory agency is investigating an advertised claim that a certain device can increase the gasoline mileage of car. Ten of these devices are purchased and installed in cars. Gasoline mileage (mpg) for each of the cars is recorded both before and after installation. The data are listed in the following table.

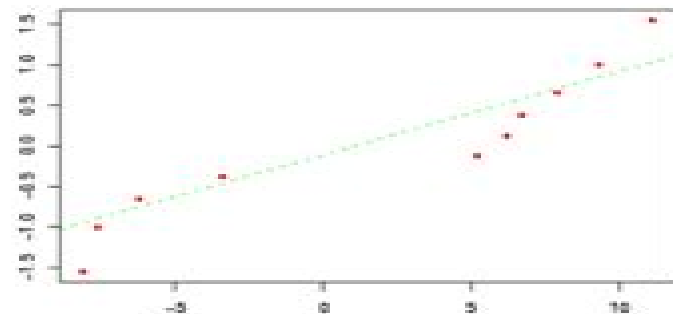
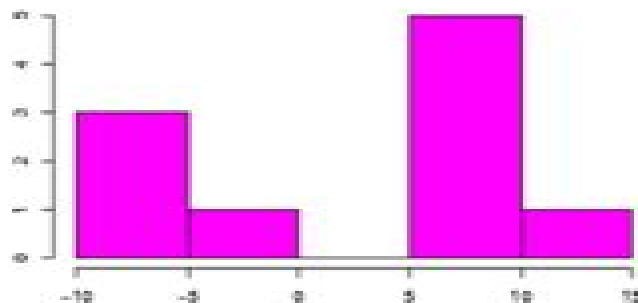
Car	Before	After	Change
1	19.1	25.8	6.7
2	29.9	23.7	-6.2
3	17.6	28.7	11.1
4	20.2	25.4	5.2
5	23.5	32.8	9.3
6	28.8	19.2	-7.6
7	21.7	29.6	7.9
8	25.7	22.3	-3.4
9	19.5	25.7	6.2
10	28.2	20.1	-8.1

The columns "Before" and "After" show the mileage (mpg) before and after the installation of device, the column "Change" represents the improvement of mileage. Here we present the summary of statistics for each variables.

Variable	Mean	S.D	L.Quartile	Median	U.Quartile
"Before"	23.22	4.246515	19.675	22.6	26.525
"After"	25.33	4.249457	22.65	25.55	27.975
"Change"	2.11	7.537528	-5.5	5.7	7.6

In this study we want to determine whether there is a significant gain in mileage after the devices were installed.

**Data analysis and statistical test.** The following figures show the histogram and the normal quantile plot (QQ plot) for the variable "Change".



Note that the sample size is small. Thus, the reliability of statistical test is dependent on the ability to assume that the data come from a normal distribution. In particular, we need to assess the normality for

# Sample Of Statistical Report

**K Morrison**



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