

## Correlation between vehicle's h5-index and amount of papers per group

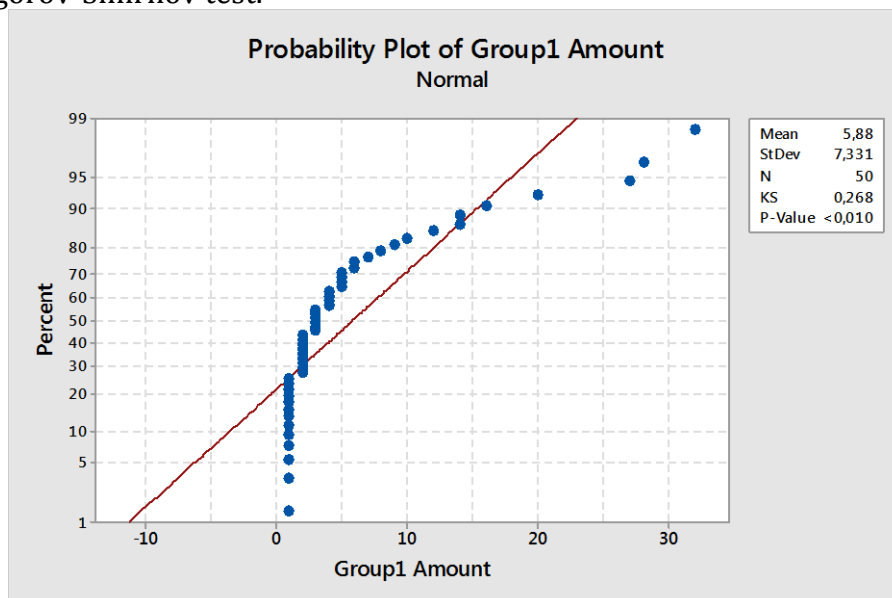
Data			
H5- INDEX	Group 1 Amount	Group 2 Amount	Group 3 Amount
2	2		
6	1		
7	1		1
9	4		2
10	3		1
11	2		7
12	6		1
13	5		2
14	6	1	1
15	12	1	1
16	5		2
17	4		
18	2	1	1
19	14	3	4
20	4		1
21	5	1	2
22	28	1	3
23	9		
24	3		1
25	5		2
26	4		1
27	10	2	8
28	8		3
29	2		4
30	2		1
31	2		5
32	16	3	1
34	3	1	2
35	1		
36	2		2
37	2		
38	1		
39	7	1	1
40	1		
41	3		5
42	2		
43	1		

44	32		6
45			1
46			1
48	1		
51	1		
52	20	2	2
53	27	6	4
60			1
61			1
62	1		
63	14	1	2
66	1		
68	1		
72	3	1	
73			
74			2
81	3	1	1
86	1		1
96	1		1

## Group 1

### Normality checking

As group 1 has 50 subjects (lines in Data table excluding missing values), we use Kolmogorov-Smirnov test.

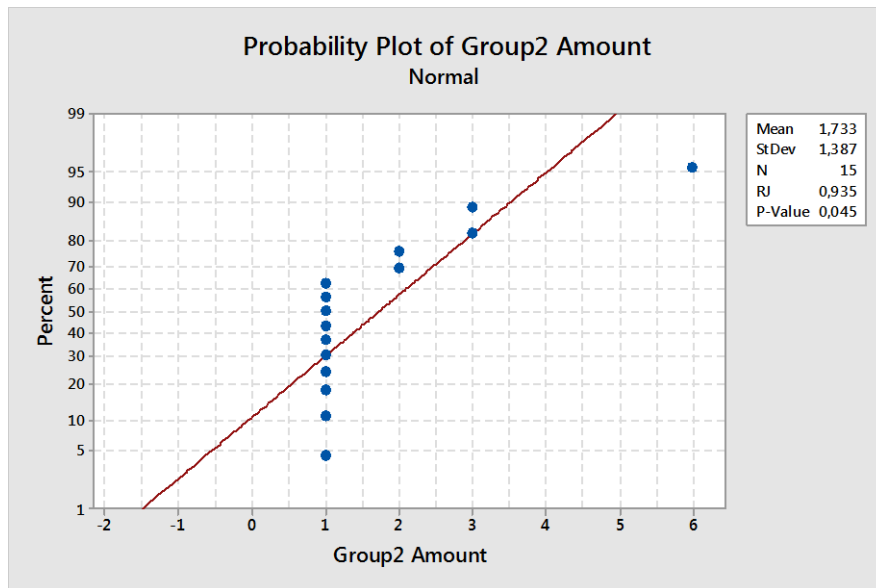


With a p-value < 0.010, the sample has **non-normal** distribution.

## Group 2

### Normality checking

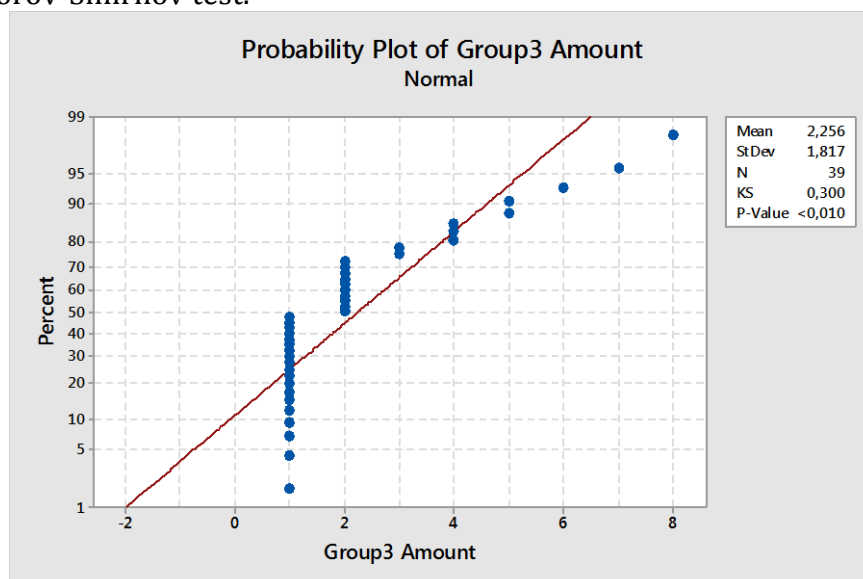
As group 2 has 15 subjects (lines in Data table excluding missing values), we use Shapiro-Wilk test.



With a p-value = 0.045, the sample has **non-normal** distribution.

### Group 3 Normality checking

As group 3 has 39 subjects (lines in Data table excluding missing values), we use Kolmogorov-Smirnov test.



With a p-value < 0.010, the sample has **non-normal** distribution.

### Correlation analysis

**Group 1:** not normal -> Spearman

With a non-normal distribution, a non-parametric correlation method is used. In this case, we use Spearman's. Below text is extracted from Minitab Tool after applying Spearman correlation to the data.

#### Spearman Rho: H5-INDEX; Group1 Amount

Spearman rho for H5-INDEX and Group1 Amount = -0,233  
P-Value = 0,104

**Group 2:** not normal -> Spearman

With a non-normal distribution, a non-parametric correlation method is used. In this case, we use Spearman's. Below text is extracted from Minitab Tool after applying Spearman correlation to the data.

**Spearman Rho: H5-INDEX; Group2 Amount**

Spearman rho for H5-INDEX and Group2 Amount = 0,077  
P-Value = 0,786

**Group 3:** not normal -> Spearman

With a non-normal distribution, a non-parametric correlation method is used. In this case, we use Spearman's. Below text is extracted from Minitab Tool after applying Spearman correlation to the data.

**Spearman Rho: H5-INDEX; Group3 Amount**

Spearman rho for H5-INDEX and Group3 Amount = -0,039  
P-Value = 0,815