

```

GET DATA
  /TYPE=TXT
  /FILE='D:\low kda score priority basis posts\first post\Brown-Forsythe Test\
student_por_spss_clean.csv'
  /ENCODING='UTF8'
  /DELCASE=LINE
  /DELIMITERS=","
  /QUALIFIER='"'
  /ARRANGEMENT=DELIMITED
  /FIRSTCASE=2
  /IMPORTCASE=ALL
  /VARIABLES=
studytime F1.0
G3 F2.0
sex A1
internet A3
higher A3
schoolsup A3
famsup A3.
CACHE.
EXECUTE.

```

```

VALUE LABELS studytime
  1 '<2 hours'
  2 '2 to 5 hours'
  3 '5 to 10 hours'
  4 '>10 hours'.

```

```
FREQUENCIES VARIABLES=studytime.
```

Frequencies

Statistics

studytime

N	Valid	649
		Missing

studytime

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	<2 hours	212	32.7	32.7	32.7
	2 to 5 hours	305	47.0	47.0	79.7
	5 to 10 hours	97	14.9	14.9	94.6
	>10 hours	35	5.4	5.4	100.0
	Total	649	100.0	100.0	

ONEWAY G3 BY studytime

/STATISTICS DESCRIPTIVES HOMOGENEITY

/MISSING ANALYSIS.

Oneway

Descriptives

G3

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean	
					Lower Bound	Upper Bound
<2 hours	212	10.84	3.219	.221	10.41	11.28
2 to 5 hours	305	12.09	3.243	.186	11.73	12.46
5 to 10 hours	97	13.23	2.502	.254	12.72	13.73
>10 hours	35	13.06	3.038	.514	12.01	14.10
Total	649	11.91	3.231	.127	11.66	12.16

Descriptives

G3

	Minimum	Maximum
<2 hours	0	18
2 to 5 hours	0	19
5 to 10 hours	8	18
>10 hours	6	19
Total	0	19

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
G3	Based on Mean	.985	3	645	.400
	Based on Median	1.026	3	645	.380
	Based on Median and with adjusted df	1.026	3	609.885	.380
	Based on trimmed mean	1.081	3	645	.356

ANOVA

G3

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	465.078	3	155.026	15.876	.000
Within Groups	6298.189	645	9.765		
Total	6763.267	648			

`SORT CASES BY studytime.`

`AGGREGATE`

`/OUTFILE=* MODE=ADDVARIABLES`

`/BREAK=studytime`

`/median_G3_by_studytime=MEDIAN(G3).`

`COMPUTE bf_abs_dev_G3 = ABS(G3 - median_G3_by_studytime).`

`EXECUTE.`

`ONEWAY bf_abs_dev_G3 BY studytime`

`/STATISTICS DESCRIPTIVES`

`/MISSING ANALYSIS.`

Oneway

Descriptives

bf_abs_dev_G3

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean	
					Lower Bound	Upper Bound
<2 hours	212	2.1934	2.35586	.16180	1.8744	2.5124
2 to 5 hours	305	2.4000	2.17885	.12476	2.1545	2.6455
5 to 10 hours	97	2.0000	1.50693	.15301	1.6963	2.3037
>10 hours	35	2.4000	1.81821	.30733	1.7754	3.0246
Total	649	2.2727	2.13681	.08388	2.1080	2.4374

Descriptives

bf_abs_dev_G3

	Minimum	Maximum
<2 hours	.00	11.00
2 to 5 hours	.00	12.00
5 to 10 hours	.00	5.00
>10 hours	.00	7.00
Total	.00	12.00

ANOVA

bf_abs_dev_G3

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	14.057	3	4.686	1.026	.380
Within Groups	2944.671	645	4.565		
Total	2958.727	648			