

```
FREQUENCIES VARIABLES=birth univ_gr Mark
/ORDER=ANALYSIS.
```

Frequencies

[DataSet1] \\Ubz01fst\Profs\User\pcoletti\Desktop\exam17\class.sav

Statistics

		Year of birth	University's grade	Marketing A passed
N	Valid	165	166	167
	Missing	2	1	0

Frequency Table

Year of birth

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1787	1	.6	.6	.6
	1957	1	.6	.6	1.2
	1958	1	.6	.6	1.8
	1959	1	.6	.6	2.4
	1964	1	.6	.6	3.0
	1968	1	.6	.6	3.6
	1975	1	.6	.6	4.2
	1976	1	.6	.6	4.8
	1978	1	.6	.6	5.5
	1979	2	1.2	1.2	6.7
	1980	4	2.4	2.4	9.1
	1981	3	1.8	1.8	10.9
	1982	6	3.6	3.6	14.5
	1983	13	7.8	7.9	22.4
	1984	8	4.8	4.8	27.3
	1985	28	16.8	17.0	44.2
	1986	38	22.8	23.0	67.3
	1987	19	11.4	11.5	78.8
	1988	21	12.6	12.7	91.5
	1989	13	7.8	7.9	99.4
	1990	1	.6	.6	100.0
	Total	165	98.8	100.0	
Missing	Missing	2	1.2		
Total		167	100.0		

University's grade

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Very low	7	4.2	4.2	4.2
	Low	6	3.6	3.6	7.8
	Average	47	28.1	28.3	36.1
	Good	85	50.9	51.2	87.3
	Very good	20	12.0	12.0	99.4
	8	1	.6	.6	100.0
	Total	166	99.4	100.0	
Missing	missing	1	.6		
Total		167	100.0		

Marketing A passed

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	no	113	67.7	67.7	67.7
	yes	53	31.7	31.7	99.4
	6	1	.6	.6	100.0
	Total	167	100.0	100.0	

USE ALL.

COMPUTE filter_\$=(favorite ~= 7).

VARIABLE LABEL filter_\$ 'favorite ~= 7 (FILTER)'.
 VALUE LABELS filter_\$ 0 'Not Selected' 1 'Selected'.
 FORMAT filter_\$ (f1.0).
 FILTER BY filter_\$.
 EXECUTE.

*Nonparametric Tests: One Sample.

NPTESTS

```

/ONESAMPLE TEST (favorite) CHISQUARE(EXPECTED=CUSTOM(CATEGORIES=1 2 3 4 5
6 FREQUENCIES=0.05 0.19 0.19 0.19 0.19 0.19 ))
/MISSING SCOPE=ANALYSIS USERMISSING=EXCLUDE
/CRITERIA ALPHA=0.05 CILEVEL=95.

```

Nonparametric Tests

[DataSet1] \\Ubz01fst\Profs\User\pcoletti\Desktop\exam17\class.sav

Hypothesis Test Summary

	Null Hypothesis	Test	Sig.	Decision
1	The categories of Favorite subject occur with the specified probabilities.	One-Sample Chi-Square Test	.228	Retain the null hypothesis.

Asymptotic significances are displayed. The significance level is .05.

FILTER OFF.

```

USE ALL.
EXECUTE.
SAVE OUTFILE='\\Ubz01fst\Profs\User\pcoletti\Desktop\exam17\class.sav'
/COMPRESSED.
*Nonparametric Tests: One Sample.
NPTESTS
/ONESAMPLE TEST (exams) BINOMIAL(TESTVALUE=0.5 SUCCESSCATEGORICAL=FIRST S
UCCESSCONTINUOUS=CUTPOINT(25))
/MISSING SCOPE=ANALYSIS USERMISSING=EXCLUDE
/CRITERIA ALPHA=0.05 CILEVEL=95.

```

Nonparametric Tests

[DataSet1] \\Ubz01fst\Profs\User\pcoletti\Desktop\exam17\class.sav

Hypothesis Test Summary

	Null Hypothesis	Test	Sig.	Decision
1	The categories defined by Passed exams <=25 and >25 occur with probabilities 0.5 and 0.5.	One-Sample Binomial Test	.000	Reject the null hypothesis.

Asymptotic significances are displayed. The significance level is .05.

```

T-TEST PAIRS=sportiveness WITH participation (PAIRED)
/CRITERIA=CI(.9500)
/MISSING=ANALYSIS.

```

T-Test

[DataSet1] \\Ubz01fst\Profs\User\pcoletti\Desktop\exam17\class.sav

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	sportiveness	.2635	94	.20207	.02084
	participation	.5489	94	.14743	.01521

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	sportiveness & participation	94	-.053	.610

Paired Samples Test

		Paired Differences		
		Mean	Std. Deviation	Std. Error Mean
Pair 1	sportiveness - participation	-.28543	.25640	.02645

Paired Samples Test

		Paired Differences		t	df
		95% Confidence Interval of the Difference			
		Lower	Upper		
Pair 1	sportiveness - participation	-.33795	-.23292	-10.793	93

Paired Samples Test

	Sig. (2-tailed)
Pair 1 sportiveness - participation	.000

* Chart Builder.

GGRAPH

```
/GRAPHDATASET NAME="graphdataset" VARIABLES=degree_type attitude MISSING=
LISTWISE REPORTMISSING=NO
```

```
/GRAPHSPEC SOURCE=INLINE.
```

```
BEGIN GPL
```

```
SOURCE: s=userSource(id("graphdataset"))
```

```
DATA: degree_type=col(source(s), name("degree_type"), unit.category())
```

```
DATA: attitude=col(source(s), name("attitude"))
```

```
DATA: id=col(source(s), name("$CASENUM"), unit.category())
```

```
GUIDE: axis(dim(1), label("Degree type"))
```

```
GUIDE: axis(dim(2), label("attitude"))
```

```
SCALE: cat(dim(1), include("1", "2"))
```

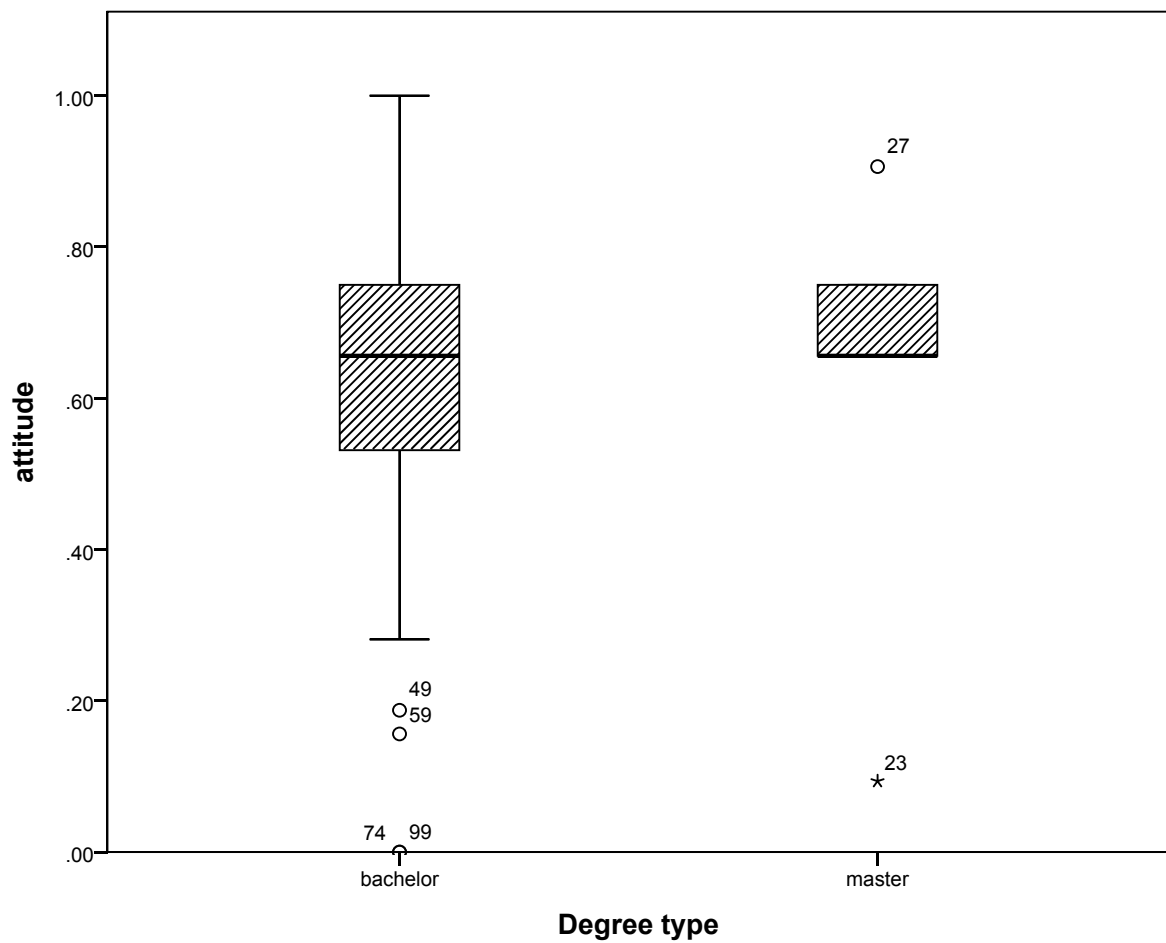
```
SCALE: linear(dim(2), include(0))
```

```
ELEMENT: schema(position(bin.quantile.letter(degree_type*attitude)), labe
l(id))
```

```
END GPL.
```

GGraph

```
[DataSet1] \\Ubz01fst\Profs\User\pcoletti\Desktop\exam17\class.sav
```



```

REGRESSION
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS R ANOVA
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT attitude
  /METHOD=ENTER exams sportiveness participation.

```

Regression

[DataSet1] \\Ubz01fst\Profs\User\pcoletti\Desktop\exam17\class.sav

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.922 ^a	.851	.846	.07336

a. Predictors: (Constant), participation, sportiveness, Passed exams

ANOVA^b

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	2.766	3	.922	171.307	.000 ^a
	Residual	.484	90	.005		
	Total	3.250	93			

a. Predictors: (Constant), participation, sportiveness, Passed exams

b. Dependent Variable: attitude

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.044	.034		1.316	.191
	Passed exams	-.002	.001	-.129	-3.148	.002
	sportiveness	.039	.038	.042	1.026	.308
	participation	1.175	.052	.926	22.638	.000

a. Dependent Variable: attitude

*Nonparametric Tests: Related Samples.

NPTESTS

/RELATED TEST(participation attitude) WILCOXON

/MISSING SCOPE=ANALYSIS USERMISSING=EXCLUDE

/CRITERIA ALPHA=0.05 CILEVEL=95.

Nonparametric Tests

[DataSet1] \\Ubz01fst\Profs\User\pcoletti\Desktop\exam17\class.sav

Hypothesis Test Summary

	Null Hypothesis	Test	Sig.	Decision
1	The median of differences between participation and attitude equals 0.	Related-Samples Wilcoxon Signed Ranks Test	.000	Reject the null hypothesis.

Asymptotic significances are displayed. The significance level is .05.

RECODE month_el (MISSING=10) (ELSE=Copy) INTO month_el2.

EXECUTE.

RECODE day_el (MISSING=1) (ELSE=Copy) INTO day_el2.

EXECUTE.

```
COMPUTE year_5after=year_el + 5.
EXECUTE.
* Date and Time Wizard: middle.
COMPUTE middle=DATE.DMY(day_el2, month_el2, year_5after).
VARIABLE LABELS middle "first day of middle school".
VARIABLE LEVEL middle (SCALE).
FORMATS middle (DATE11).
VARIABLE WIDTH middle(11).
EXECUTE.
SAVE OUTFILE='\\Ubz01fst\Profs\User\pcoletti\Desktop\exam17\class.sav'
/COMPRESSED.
```