

```
644 0 OUTPUT ACTIVATE ContentValidityOutput.  
644 0 M> OUTPUT ACTIVATE ContentValidityOutput.  
645 0 TITLE 'Content Relevance Index Analysis'.  
645 0 M> TITLE 'Content Relevance Index Analysis'.
```

Content Relevance Index Analysis

```
646 0
646 0 M>
647 0 GET DATA
647 0 M> GET DATA
648 0 /TYPE=TXT /FILE='D:\DATA ANALYSIS\L Validity Factor Analysis and Scale Testing\Content Validity\dataset.csv' /ENCODING='UTF8' /DELCASE=LINE /DELIMITERS=', ' /QUALIFIER='''
648 0 M> /TYPE=TXT /FILE='D:\DATA ANALYSIS\L Validity Factor Analysis and Scale Testing\Content Validity\dataset.csv' /ENCODING='UTF8' /DELCASE=LINE /DELIMITERS=', ' /QUALIFIER='''
649 0 /ARRANGEMENT=DELIMITED /FIRSTCASE=2
649 0 M> /ARRANGEMENT=DELIMITED /FIRSTCASE=2
650 0 /VARIABLES=
650 0 M> /VARIABLES=
651 0 school A8 sex A8 age F8.0 address A8 famsize A8 Pstatus A8 Medu F8.0 Fedu F8.0
651 0 M> school A8 sex A8 age F8.0 address A8 famsize A8 Pstatus A8 Medu F8.0 Fedu F8.0
652 0 Mjob A16 Fjob A16 reason A16 guardian A16 traveltime F8.0 studytime F8.0 failures F8.0
652 0 M> Mjob A16 Fjob A16 reason A16 guardian A16 traveltime F8.0 studytime F8.0 failures F8.0
653 0 schoolsup A8 famsup A8 paid A8 activities A8 nursery A8 higher A8 internet A8 romantic A8
653 0 M> schoolsup A8 famsup A8 paid A8 activities A8 nursery A8 higher A8 internet A8 romantic A8
654 0 famrel F8.0 freetime F8.0 goout F8.0 Dalc F8.0 Walc F8.0 health F8.0 absences F8.0 G1 F8.0 G2 F8.0 G3 F8.0.
654 0 M> famrel F8.0 freetime F8.0 goout F8.0 Dalc F8.0 Walc F8.0 health F8.0 absences F8.0 G1 F8.0 G2 F8.0 G3 F8.0.
655 0 DATASET NAME ContentValidityData.
655 0 M> DATASET NAME ContentValidityData.
656 0 COMPUTE subject_id=$CASENUM.
656 0 M> COMPUTE subject_id=$CASENUM.
657 0 COMPUTE Dalc_R=6-Dalc.
657 0 M> COMPUTE Dalc_R=6-Dalc.
658 0 COMPUTE Walc_R=6-Walc.
658 0 M> COMPUTE Walc_R=6-Walc.
```

Content Relevance Index Analysis

```
659 0 RECODE schoolsup famsup paid activities higher internet ('no'=0) ('yes'=1)
659 0 M> RECODE schoolsup famsup paid activities higher internet ('no'=0) ('yes'=1)
660 0 INTO schoolsup_b famsup_b paid_b activities_b higher_b internet_b.
660 0 M> INTO schoolsup_b famsup_b paid_b activities_b higher_b internet_b
.
661 0 EXECUTE.
661 0 M> EXECUTE.
662 0
662 0 M>
663 0 * BEGIN METHOD-SPECIFIC SPSS WORKFLOW.
663 0 M> * BEGIN METHOD-SPECIFIC SPSS WORKFLOW.
664 0 TITLE 'Content Relevance Index Analysis'.
664 0 M> TITLE 'Content Relevance Index Analysis'.
```

Content Relevance Index Analysis

665 0 SUBTITLE 'Respondent endorsement proxy for six content domains'.

665 0 M> SUBTITLE 'Respondent endorsement proxy for six content domains'.

Content Relevance Index Analysis
Respondent endorsement proxy for six content domains

```
666  0  FREQUENCIES VARIABLES=schoolsup_b famsup_b paid_b activities_b higher_b internet_b /STATISTICS=MEAN SUM /BARCHART FREQ.
666  0 M> FREQUENCIES VARIABLES=schoolsup_b famsup_b paid_b activities_b higher_b internet_b /STATISTICS=MEAN SUM /BARCHART FREQ.
```

Frequencies

Notes		
Output Created		18-JUL-2026 10:54:47
Comments		
Input	Data	D:\DATA ANALYSIS\L Validity Factor Analysis and Scale Testing\Content Validity\dataset.csv
	Active Dataset	ContentValidityData
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	649
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data.
Syntax		FREQUENCIES VARIABLES=schoolsup_b famsup_b paid_b activities_b higher_b internet_b /STATISTICS=MEAN SUM /BARCHART FREQ.
Resources	Processor Time	00:00:02.13
	Elapsed Time	00:00:01.76

[ContentValidityData]

Content Relevance Index Analysis
Respondent endorsement proxy for six content domains

Statistics

		schoolsup_b	famsup_b	paid_b	activities_b	higher_b	internet_b
N	Valid	649	649	649	649	649	649
	Missing	0	0	0	0	0	0
Mean		.1048	.6133	.0601	.4854	.8937	.7673
Sum		68.00	398.00	39.00	315.00	580.00	498.00

Frequency Table

schoolsup_b

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	581	89.5	89.5	89.5
	1.00	68	10.5	10.5	100.0
	Total	649	100.0	100.0	

famsup_b

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	251	38.7	38.7	38.7
	1.00	398	61.3	61.3	100.0
	Total	649	100.0	100.0	

paid_b

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	610	94.0	94.0	94.0
	1.00	39	6.0	6.0	100.0
	Total	649	100.0	100.0	

Content Relevance Index Analysis
Respondent endorsement proxy for six content domains

activities_b

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	334	51.5	51.5	51.5
	1.00	315	48.5	48.5	100.0
	Total	649	100.0	100.0	

higher_b

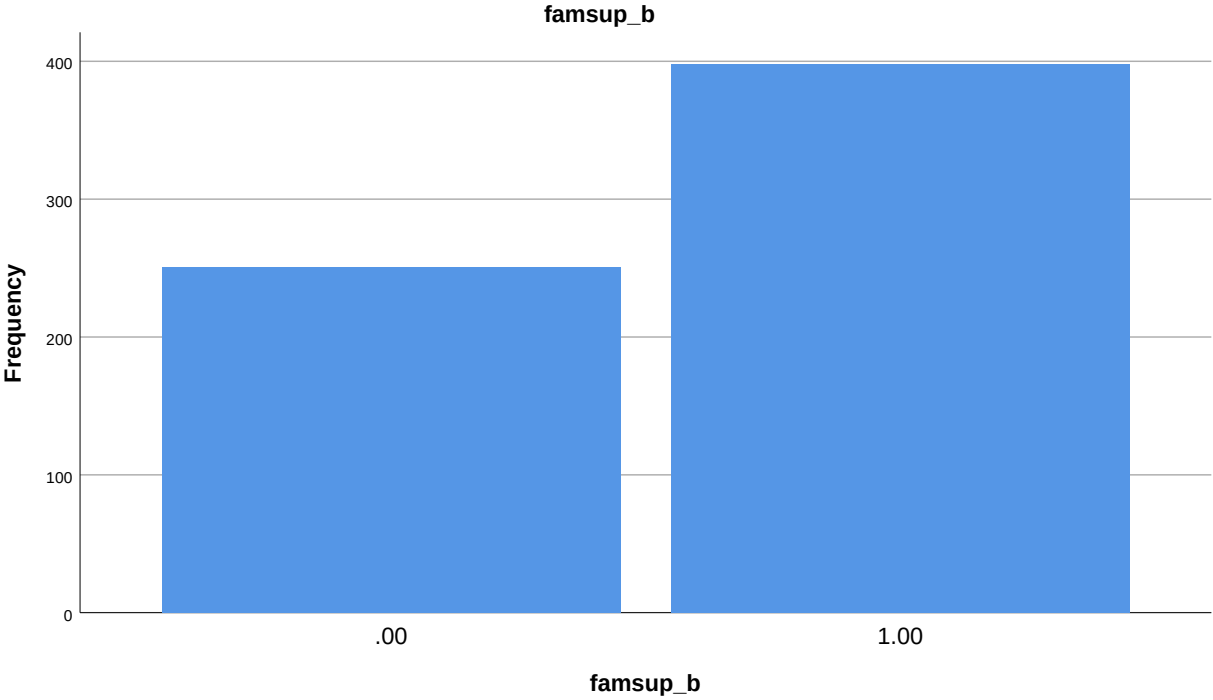
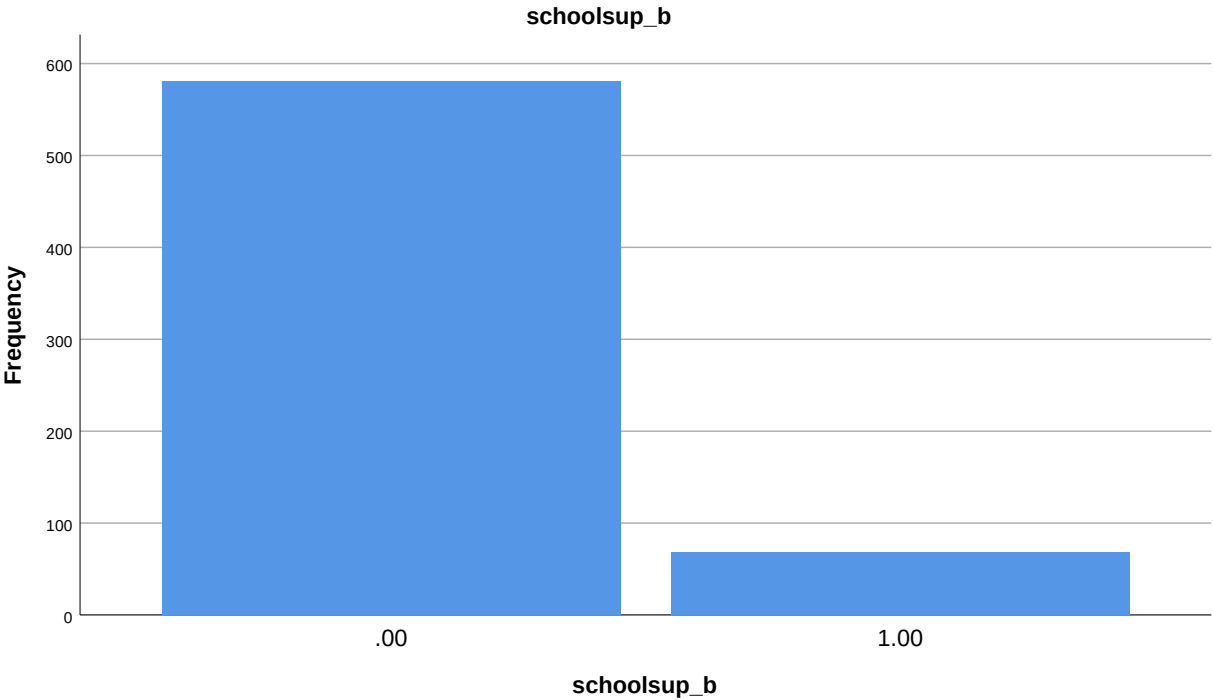
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	69	10.6	10.6	10.6
	1.00	580	89.4	89.4	100.0
	Total	649	100.0	100.0	

internet_b

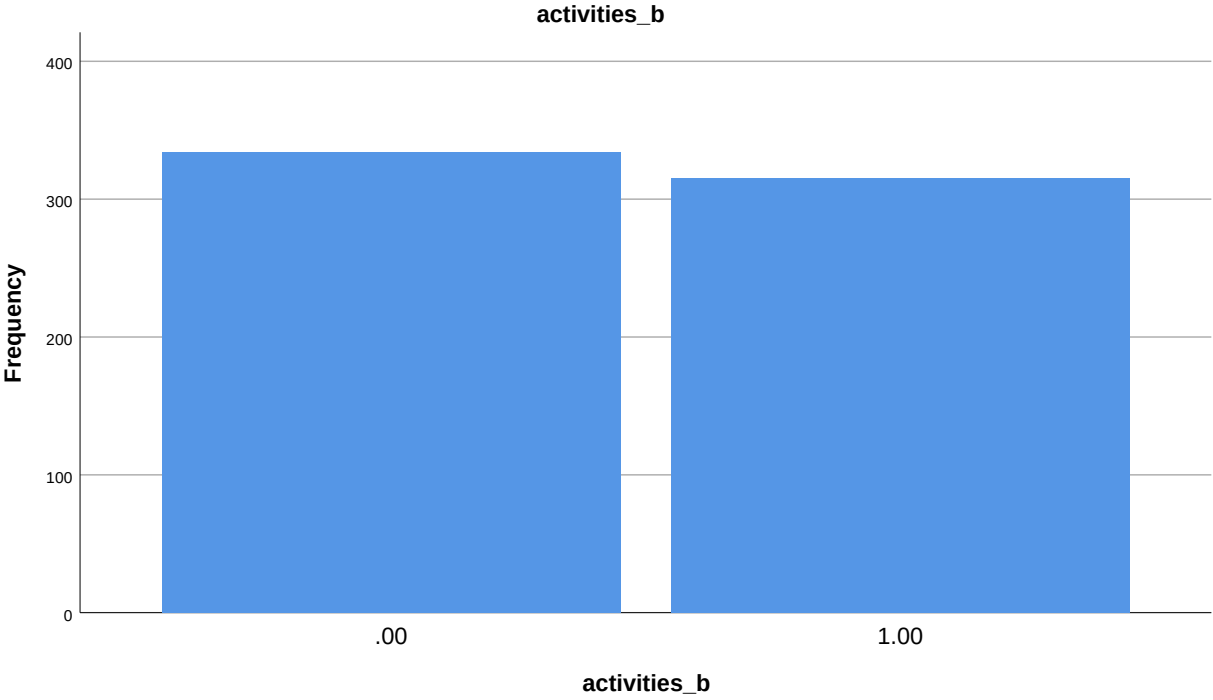
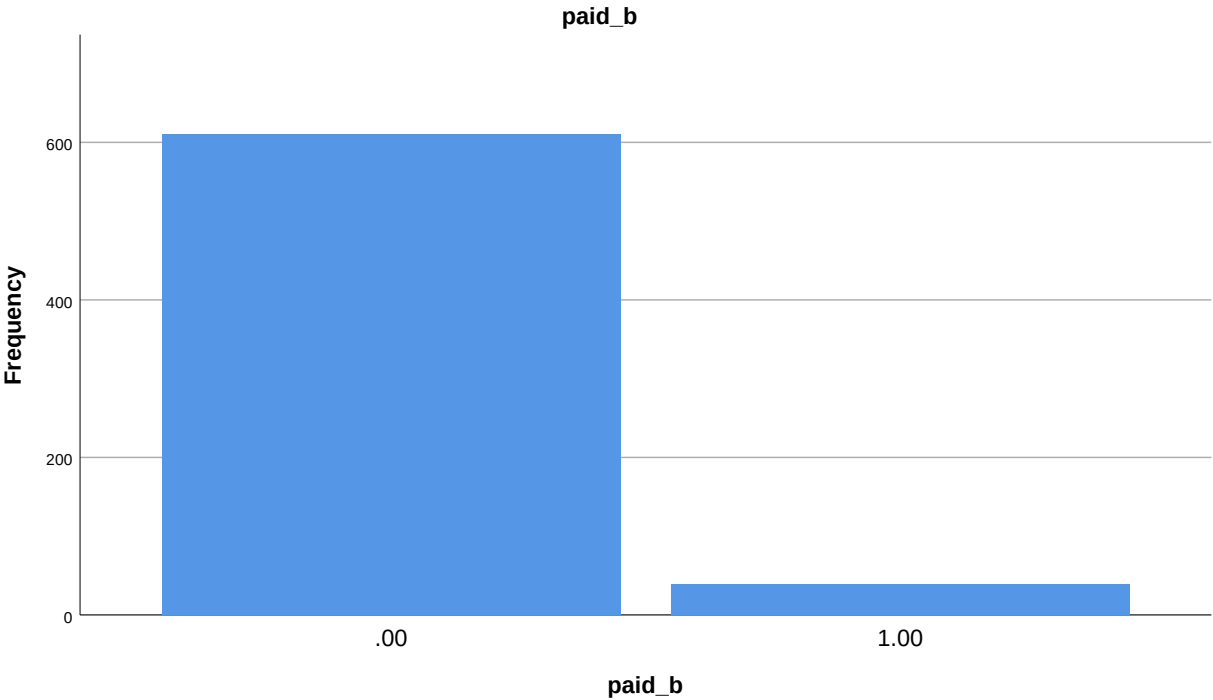
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	151	23.3	23.3	23.3
	1.00	498	76.7	76.7	100.0
	Total	649	100.0	100.0	

Bar Chart

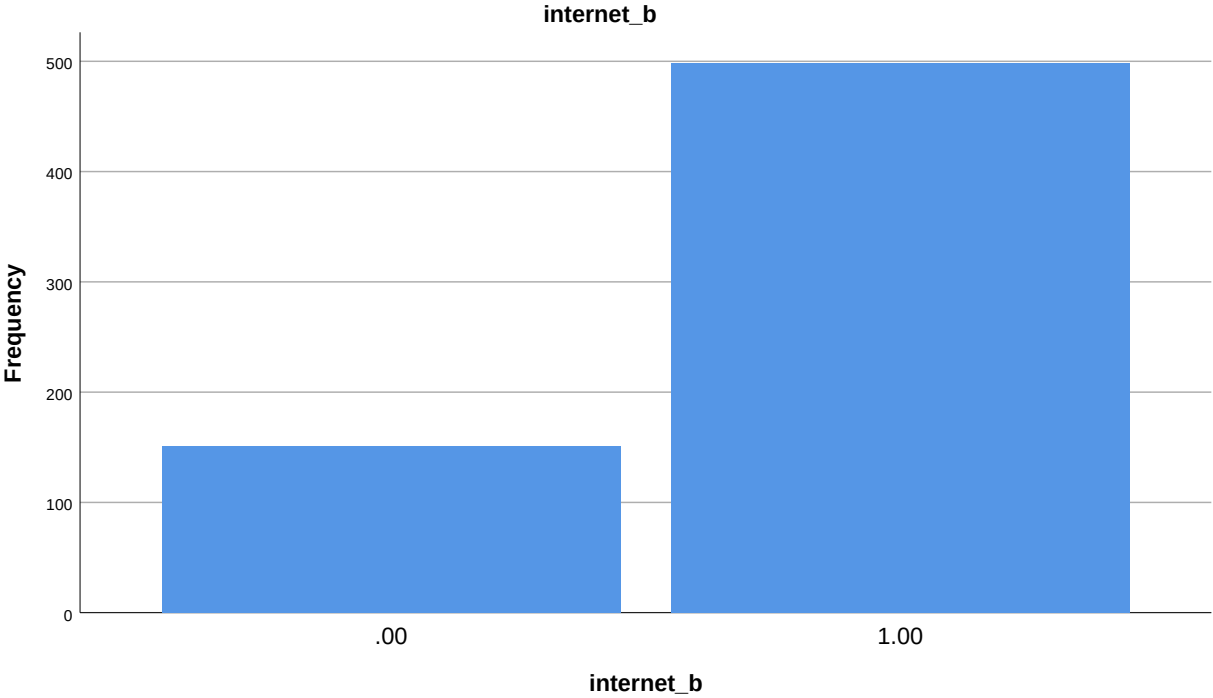
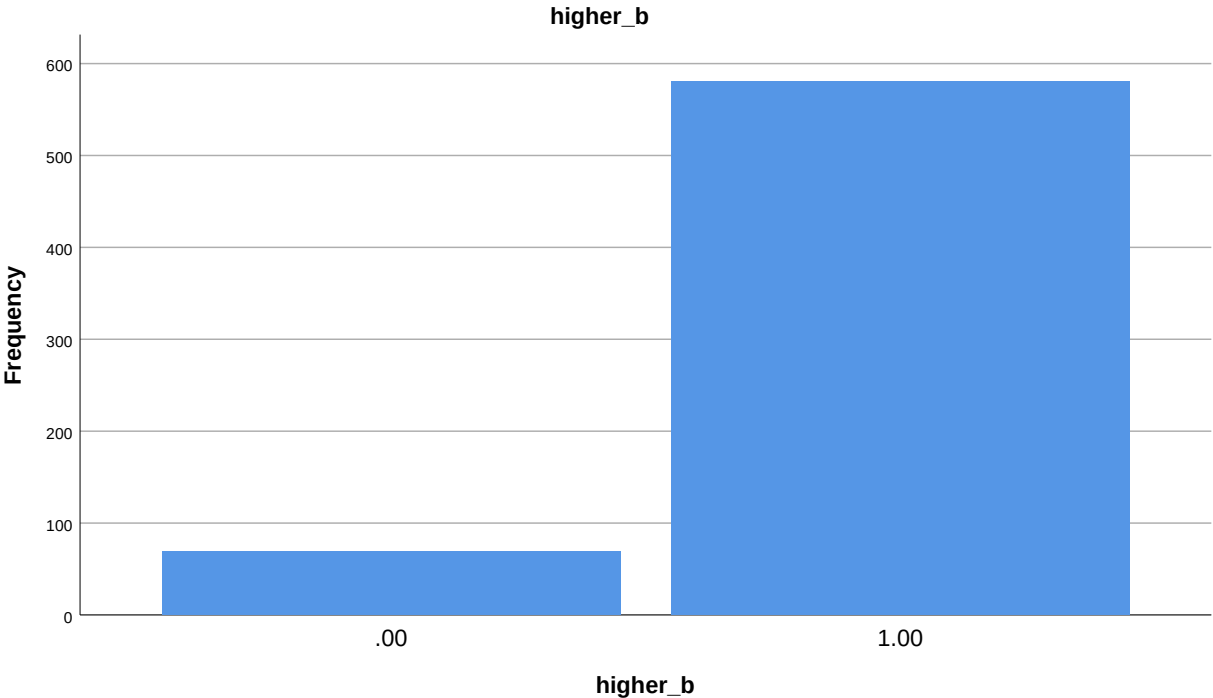
Content Relevance Index Analysis
Respondent endorsement proxy for six content domains



Content Relevance Index Analysis
Respondent endorsement proxy for six content domains



Content Relevance Index Analysis
Respondent endorsement proxy for six content domains



Content Relevance Index Analysis
Respondent endorsement proxy for six content domains

```
667  0  RELIABILITY /VARIABLES=schoolsup_b famsup_b paid_b activities_b highe
r_b internet_b /SCALE('Content endorsement set') ALL /
      MODEL=ALPHA /STATISTICS=DESCRIPTIVE SCALE CORR.
667  0 M> RELIABILITY /VARIABLES=schoolsup_b famsup_b paid_b activities_b hi
gher_b internet_b /SCALE('Content endorsement set') AL
      L /MODEL=ALPHA /STATISTICS=DESCRIPTIVE SCALE CORR.
```

Reliability

Notes

Output Created		18-JUL-2026 10:54:49
Comments		
Input	Data	D:\DATA ANALYSIS\L Validity Factor Analysis and Scale Testing\Content Validity\dataset.csv
	Active Dataset	ContentValidityData
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	649
	Matrix Input	D:\DATA ANALYSIS\L Validity Factor Analysis and Scale Testing\Content Validity\content_validity_s pss_syntax.sps
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the procedure.

Content Relevance Index Analysis
Respondent endorsement proxy for six content domains

Notes

Syntax	RELIABILITY /VARIABLES=schoolsup_ b famsup_b paid_b activities_b higher_b internet_b /SCALE ('Content endorsement set') ALL /MODEL=ALPHA /STATISTICS=DESCRIPT IVE SCALE CORR.	
Resources	Processor Time	00:00:00.05
	Elapsed Time	00:00:00.03

Scale: Content endorsement set

Case Processing Summary

		N	%
Cases	Valid	649	100.0
	Excluded ^a	0	.0
	Total	649	100.0

a. Listwise deletion based on all variables in the procedure.

Reliability Statistics

Cronbach's Alpha	Cronbach's Alpha Based on Standardized Items	N of Items
.211	.229	6

Content Relevance Index Analysis
Respondent endorsement proxy for six content domains

Item Statistics

	Mean	Std. Deviation	N
schoolsup_b	.1048	.30650	649
famsup_b	.6133	.48738	649
paid_b	.0601	.23784	649
activities_b	.4854	.50017	649
higher_b	.8937	.30848	649
internet_b	.7673	.42286	649

Inter-Item Correlation Matrix

	schoolsup_b	famsup_b	paid_b	activities_b	higher_b	internet_b
schoolsup_b	1.000	.075	.041	-.030	.085	-.026
famsup_b	.075	1.000	.094	-.007	.085	.072
paid_b	.041	.094	1.000	.066	.024	.032
activities_b	-.030	-.007	.066	1.000	.045	.082
higher_b	.085	.085	.024	.045	1.000	.070
internet_b	-.026	.072	.032	.082	.070	1.000

Scale Statistics

Mean	Variance	Std. Deviation	N of Items
2.9245	1.107	1.05211	6

```

668 0 ECHO 'Formal content validity still requires qualified expert ratings
'.
668 0 M> ECHO 'Formal content validity still requires qualified expert ratings
'.
Formal content validity still requires qualified expert ratings
669 0 * END METHOD-SPECIFIC SPSS WORKFLOW.
669 0 M> * END METHOD-SPECIFIC SPSS WORKFLOW.
670 0
670 0 M>
671 0 SAVE OUTFILE='D:\DATA ANALYSIS\L Validity Factor Analysis and Scale T
esting\Content Validity\SPSS_Output\sav\content-validi
ty_spss_ready_data.sav' /COMPRESSED.

```

Content Relevance Index Analysis
Respondent endorsement proxy for six content domains

```

671  0 M>  SAVE OUTFILE='D:\DATA ANALYSIS\L Validity Factor Analysis and Scal
e Testing\Content Validity\SPSS_Output\sav\content-val
        idity_spss_ready_data.sav' /COMPRESSED.

672  0
672  0 M>
673  0  ECHO '=====
====='.
673  0 M>  ECHO '=====
====='.
=====
674  0  ECHO 'CONTENT RELEVANCE INDEX ANALYSIS'.
674  0 M>  ECHO 'CONTENT RELEVANCE INDEX ANALYSIS'.
CONTENT RELEVANCE INDEX ANALYSIS
675  0  ECHO 'Design: Respondent endorsement proxy for six proposed content d
omains, explicitly separated from formal expert CVI.'.
675  0 M>  ECHO 'Design: Respondent endorsement proxy for six proposed conten
t domains, explicitly separated from formal expert CVI
        .'.
Design: Respondent endorsement proxy for six proposed content domains, explici
tly separated from formal expert CVI.
676  0  ECHO 'Null hypothesis: The average relevance endorsement does not exc
eed chance-level support.'.
676  0 M>  ECHO 'Null hypothesis: The average relevance endorsement does not
exceed chance-level support.'.
Null hypothesis: The average relevance endorsement does not exceed chance-leve
l support.
677  0  ECHO 'Formula: I-CVI_i=mean(relevant_i); CVR_i=2 I-CVI_i-1; S-CVI/Ave
=mean(I-CVI).'.
677  0 M>  ECHO 'Formula: I-CVI_i=mean(relevant_i); CVR_i=2 I-CVI_i-1; S-CVI/
Ave=mean(I-CVI).'.
Formula: I-CVI_i=mean(relevant_i); CVR_i=2 I-CVI_i-1; S-CVI/Ave=mean(I-CVI).
678  0  ECHO 'Variables: schoolsup, famsup, paid, activities, higher, interne
t'.
678  0 M>  ECHO 'Variables: schoolsup, famsup, paid, activities, higher, inte
rnet'.
Variables: schoolsup, famsup, paid, activities, higher, internet
679  0  ECHO 'Rows analyzed: 649'.
679  0 M>  ECHO 'Rows analyzed: 649'.
Rows analyzed: 649

```

Content Relevance Index Analysis
Respondent endorsement proxy for six content domains

```
680  0  ECHO 'items_at_0_78 = 1'.
680  0 M>  ECHO 'items_at_0_78 = 1'.
items_at_0_78 = 1
681  0  ECHO 'mean_cvr = -0.025166923472008218'.
681  0 M>  ECHO 'mean_cvr = -0.025166923472008218'.
mean_cvr = -0.025166923472008218
682  0  ECHO 'minimum_item_cvi = 0.060092449922958396'.
682  0 M>  ECHO 'minimum_item_cvi = 0.060092449922958396'.
minimum_item_cvi = 0.060092449922958396
683  0  ECHO 'respondents = 649'.
683  0 M>  ECHO 'respondents = 649'.
respondents = 649
684  0  ECHO 'scale_cvi_average = 0.4874165382639959'.
684  0 M>  ECHO 'scale_cvi_average = 0.4874165382639959'.
scale_cvi_average = 0.4874165382639959
685  0  ECHO 'Cross-check status: pass'.
685  0 M>  ECHO 'Cross-check status: pass'.
Cross-check status: pass
686  0  ECHO '=====
====='.
686  0 M>  ECHO '=====
====='.
=====
687  0
687  0 M>
688  0  OUTPUT SAVE OUTFILE='D:\DATA ANALYSIS\L Validity Factor Analysis and
Scale Testing\Content Validity\SPSS_Output\spv\content
        -validity_spss_output.spv'.
688  0 M>  OUTPUT SAVE OUTFILE='D:\DATA ANALYSIS\L Validity Factor Analysis a
nd Scale Testing\Content Validity\SPSS_Output\spv\cont
        ent-validity_spss_output.spv'.
689  0  OUTPUT EXPORT /CONTENTS EXPORT=ALL LAYERS=PRINTSETTING MODELVIEWS=PRI
NTSETTING
689  0 M>  OUTPUT EXPORT /CONTENTS EXPORT=ALL LAYERS=PRINTSETTING MODELVIEWS=
PRINTSETTING
```