

```
SAVE OUTFILE='C:\Documents and Settings\ddelgad1\Desktop\FactorAnalysis.sav'  
/COMPRESSED.
```

```
SAVE TRANSLATE OUTFILE='C:\Documents and Settings\ddelgad1\Desktop\FactorAnaly  
sis.xls'  
/TYPE=XLS  
/VERSION=8  
/MAP  
/REPLACE  
/FIELDNAMES  
/CELLS=VALUES.
```

```
Data written to C:\Documents and Settings\ddelgad1\Desktop\FactorAnalysis.xls.  
7 variables and 50 cases written to range: SPSS.
```

```
Variable: SalesGrowth      Type: Number   Width:   8   Dec: 1  
Variable: SalesProfitability  Type: Number   Width:   8   Dec: 1  
Variable: NewAccountSales    Type: Number   Width:   8   Dec: 1  
Variable: CreativityTest     Type: Number   Width:   8   Dec: 0  
Variable: MechanicalReasoningTest  Type: Number   Width:   8   Dec: 0  
Variable: AbstractReasoningTest  Type: Number   Width:   8   Dec: 0  
Variable: MathematicsTest     Type: Number   Width:   8   Dec: 0
```

```
FACTOR
```

```
  /VARIABLES SalesGrowth SalesProfitability NewAccountSales CreativityTest Mec  
hanicalReasoningTest AbstractReasoningTest MathematicsTest  
  /MISSING LISTWISE  
  /ANALYSIS SalesGrowth SalesProfitability NewAccountSales CreativityTest Mech  
anicalReasoningTest AbstractReasoningTest MathematicsTest  
  /PRINT UNIVARIATE INITIAL CORRELATION REPR EXTRACTION ROTATION  
  /CRITERIA FACTORS(2) ITERATE(25)  
  /EXTRACTION PC  
  /CRITERIA ITERATE(25)  
  /ROTATION VARIMAX  
  /METHOD=CORRELATION.
```

Factor Analysis

Notes

Output Created		03-Dec-2010 15:57:01
Comments		
Input	Data	C:\Documents and Settings\ddelgad1\Desktop\Factor Analysis.sav
	Active Dataset	DataSet0
	Filter	<none>
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	N of Rows in Working Data File	50
Missing Value Handling	Definition of Missing	MISSING=EXCLUDE: User-defined missing values are treated as missing.
	Cases Used	LISTWISE: Statistics are based on cases with no missing values for any variable used.
Syntax		<pre> FACTOR /VARIABLES SalesGrowth SalesProfitability NewAccountSales CreativityTest MechanicalReasoningTest AbstractReasoningTest MathematicsTest /MISSING LISTWISE /ANALYSIS SalesGrowth SalesProfitability NewAccountSales CreativityTest MechanicalReasoningTest AbstractReasoningTest MathematicsTest /PRINT UNIVARIATE INITIAL CORRELATION REPR EXTRACTION ROTATION /CRITERIA FACTORS(2) ITERATE (25) /EXTRACTION PC /CRITERIA ITERATE(25) /ROTATION VARIMAX /METHOD=CORRELATION. </pre>
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	Maximum Memory Required	7204 (7.035K) bytes

[DataSet0] C:\Documents and Settings\ddelgad1\Desktop\FactorAnalysis.sav

Descriptive Statistics

	Mean	Std. Deviation	Analysis N
Growth	98.836	7.3373	50
Profitability	106.802	9.9151	50
New	102.810	4.7122	50
Creativity	11.22	3.950	50
Mechanical	14.18	3.385	50
Abstract	10.56	2.140	50
Math	29.76	10.538	50

Correlation Matrix

		Growth	Profitability	New	Creativity	Mechanical
Correlation	Growth	1.000	.929	.884	.572	.708
	Profitability	.929	1.000	.848	.538	.739
	New	.884	.848	1.000	.700	.637
	Creativity	.572	.538	.700	1.000	.591
	Mechanical	.708	.739	.637	.591	1.000
	Abstract	.674	.496	.641	.147	.386
	Math	.927	.942	.853	.413	.575

Correlation Matrix

		Abstract	Math
Correlation	Growth	.674	.927
	Profitability	.496	.942
	New	.641	.853
	Creativity	.147	.413
	Mechanical	.386	.575
	Abstract	1.000	.566
	Math	.566	1.000

Communalities

	Initial	Extraction
Growth	1.000	.958
Profitability	1.000	.895
New	1.000	.894
Creativity	1.000	.863
Mechanical	1.000	.694
Abstract	1.000	.800
Math	1.000	.871

Extraction Method: Principal Component Analysis.

Total Variance Explained

Component	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	5.042	72.022	72.022	5.042	72.022	72.022
2	.933	13.325	85.346	.933	13.325	85.346
3	.481	6.873	92.220			
4	.421	6.017	98.237			
5	.081	1.158	99.395			
6	.031	.444	99.838			
7	.011	.162	100.000			

Extraction Method: Principal Component Analysis.

Total Variance Explained

Component	Rotation Sums of Squared Loadings		
	Total	% of Variance	Cumulative %
1	3.211	45.870	45.870
2	2.763	39.477	85.346
3			
4			
5			
6			
7			

Extraction Method: Principal Component Analysis.

Component Matrix^a

	Component	
	1	2
Growth	.973	-.103
Profitability	.946	.003
New	.945	.017
Creativity	.659	.655
Mechanical	.781	.289
Abstract	.655	-.609
Math	.913	-.194

Extraction Method: Principal Component Analysis.

a. 2 components extracted.

Reproduced Correlations

		Growth	Profitability	New	Creativity	Mechanical
Reproduced Correlation	Growth	.958 ^a	.920	.918	.573	.730
	Profitability	.920	.895 ^a	.894	.625	.740
	New	.918	.894	.894 ^a	.634	.743
	Creativity	.573	.625	.634	.863 ^a	.704
	Mechanical	.730	.740	.743	.704	.694 ^a
	Abstract	.700	.618	.609	.032	.335
	Math	.909	.863	.860	.475	.657
Residual ^b	Growth		.009	-.034	-.001	-.022
	Profitability	.009		-.046	-.087	-.001
	New	-.034	-.046		.067	-.106
	Creativity	-.001	-.087	.067		-.113
	Mechanical	-.022	-.001	-.106	-.113	
	Abstract	-.026	-.121	.032	.115	.051
	Math	.019	.079	-.007	-.062	-.083

Extraction Method: Principal Component Analysis.

a. Reproduced communalities

b. Residuals are computed between observed and reproduced correlations. There are 11 (52.0%) nonredundant residuals with absolute values greater than 0.05.

Reproduced Correlations

		Abstract	Math
Reproduced Correlation	Growth	.700	.909
	Profitability	.618	.863
	New	.609	.860
	Creativity	.032	.475
	Mechanical	.335	.657
	Abstract	.800 ^a	.716
	Math	.716	.871 ^a
Residual ^b	Growth	-.026	.019
	Profitability	-.121	.079
	New	.032	-.007
	Creativity	.115	-.062
	Mechanical	.051	-.083
	Abstract		-.150
	Math	-.150	

Extraction Method: Principal Component Analysis.

a. Reproduced communalities

b. Residuals are computed between observed and reproduced correlations. There are 11 (52.0%) nonredundant residuals with absolute values greater than 0.05.

Rotated Component Matrix^a

	Component	
	1	2
Growth	.793	.573
Profitability	.702	.634
New	.693	.644
Creativity	.053	.927
Mechanical	.388	.737
Abstract	.894	-.017
Math	.809	.465

Extraction Method: Principal Component Analysis.

Rotation Method: Varimax with Kaiser Normalization.

a. Rotation converged in 3 iterations.

Component Transformation Matrix

Component	1	2
1	.745	.667
2	-.667	.745

Extraction Method: Principal
Component Analysis.
Rotation Method: Varimax with
Kaiser Normalization.

```
DESCRIPTIVES VARIABLES=SalesGrowth NewAccountSales SalesProfitability CreativityTest MechanicalReasoningTest AbstractReasoningTest MathematicsTest  
/SAVE  
/STATISTICS=MEAN STDDEV MIN MAX.
```

FACTOR

```
/VARIABLES SalesGrowth SalesProfitability NewAccountSales CreativityTest MechanicalReasoningTest AbstractReasoningTest MathematicsTest  
/MISSING LISTWISE  
/ANALYSIS SalesGrowth SalesProfitability NewAccountSales CreativityTest MechanicalReasoningTest AbstractReasoningTest MathematicsTest  
/PRINT UNIVARIATE INITIAL CORRELATION REPR EXTRACTION ROTATION  
/PLOT EIGEN  
/CRITERIA FACTORS(2) ITERATE(25)  
/EXTRACTION PC  
/CRITERIA ITERATE(25)  
/ROTATION VARIMAX  
/METHOD=CORRELATION.
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Output Created		03-Dec-2010 16:09:30
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Resources	Processor Time	00:00:00.469
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[DataSet0] C:\Documents and Settings\ddelgad1\Desktop\FactorAnalysis.sav

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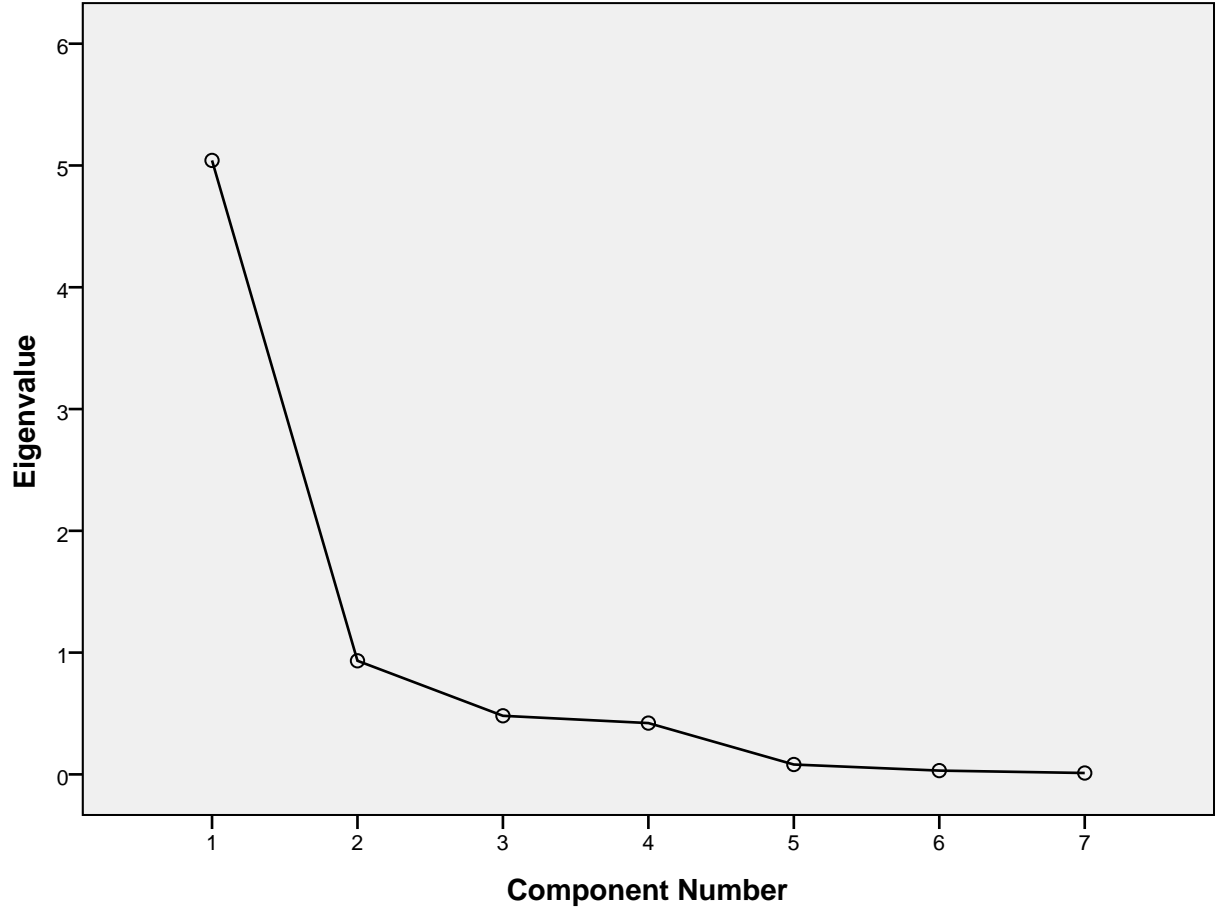
Extraction Method: Principal Component Analysis.

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Extraction Method: Principal Component Analysis.

Scree Plot



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