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tel 514.745.8272 fax 514.745.6242 CP Normandie PO Box 26067 I Montreal, Quebec I H3M 3E8 contact@psychtests.com

# **Psychometric Report**

# **Extroversion/Introversion Test**

#### **Description**:

A 40-item test assessing extroversion/introversion. Low scores indicate extreme introversion; high scores indicate extreme extroversion. The test yields an overall extroversion/introversion score and a personalized interpretation of the results.

#### Reference:

Jerabek, I. (1997). Extroversion/Introversion Inventory - Revised. Queendom.com

#### Sample Size: 40887

#### Sample Description:

The sample used in this study was randomly selected from a pool of over 80000 participants. It includes men and women, aged 10 to 80, who took the test on the Queendom.com website.

Number of questions: 40

#### **Descriptive Statistics**

See Annex 1 for Descriptive statistics

#### **Distribution for the Extroversion/Introversion Test**

The distribution of the scores is shown in red; the normal curve is represented by the black line plotted over it. The scores are displayed on the x-axis. The y-axis corresponds to the number of respondents who fall into the relevant score range.



### **Reliability and Internal Consistency**

Score (26 items)

## Inter-Item Consistency

Cronbach's Coefficient Alpha: 0.8811

#### Split-Half Reliability

Correlation between forms: 0.7557 Spearman-Brown formula: 0.8608 Guttman's formula: 0.8597

#### **Criterion and Construct Validity**

#### 1. Relationship between extroversion score and self-esteem:

Question #1: How is your self-esteem? VALUE="1" > Rock bottom VALUE="2" > Low VALUE="3" > Could be better VALUE="4" > Solid VALUE="5" > Very solid

Significant score differences were found among groups of subjects depending on their level of selfesteem. Subjects who rated themselves the highest on self-esteem had the highest extroversion scores. Subjects who rated themselves the lowest on self-esteem had the lowest extroversion scores. The relationship seems linear – the higher one perceives their self-esteem to be, the higher their extroversion score. The effects are robust. See Annex 2 for a table showing homogeneous subsets.

F<sub>(4,25279)</sub> = 937.736 p < 0.0001



#### EXTROVERSION SCORE AND SELF-ESTEEM



# 2. Relationship between extroversion score and enjoyment interacting with others:

Question #2: Do you enjoy interacting with other people? VALUE="1" > Never VALUE="2" > Not very often VALUE="3" > Once in a while VALUE="4" > Sometimes VALUE="5" > Most of the time VALUE="6" > The more often the better

Significant score differences were found among groups of subjects depending on their enjoyment interacting with others. Subjects who reported the highest enjoyment interacting with others had the highest extroversion scores. Subjects who reported the lowest enjoyment interacting with others had the lowest extroversion scores. A positive linear correlation was found between extroversion scores and the amount of enjoyment one gets interacting with others. The effects are robust. See Annex 3 for a table showing homogeneous subsets.

F<sub>(5,25516)</sub> = 5732.130 p < 0.0001

# Point of the time Not very often Sometimes More often better

#### EXTROVERSION SCORE AND ENJOYMENT INTERACTING WITH OTHERS:

Do you enjoy interacting with other people?

#### 3. Relationship between extroversion score and extroversion self-rating:

Question #3: Off the top of your head, would you say you are: VALUE="1" > An introvert VALUE="2" > Somewhere in between VALUE="3" > An extrovert

Significant score differences were found among groups of subjects depending on their self-reported extroversion scores. Subjects who rated themselves as "extroverts" had the highest extroversion scores. Subjects who rated themselves as "introverts" had the lowest extroversion scores. A linear relationship was found between the extroversion score and one's self rating on extroversion: as one's perceived extroversion increased so did their extroversion score. The effects are robust. See Annex 4 for a table showing homogeneous subsets.

F<sub>(2,249490)</sub> = 10325.315 p < 0.0001



#### **EXTROVERSION AND EXTROVERSION SELF-RATING**

Off the top of your head, would you say you are:

#### 4. Relationship between extroversion score and extroversion rating by others:

Question #4: Others would say you are: VALUE="1" > An introvert VALUE="2" > Somewhere in between VALUE="3" > An extrovert

Significant score differences were found among groups of subjects depending on their extroversion level reported by others. Subjects who were rated as "extroverts" by others had the highest extroversion scores while subjects who were rated as "introverts" by others had the lowest extroversion scores. A positive linear correlation was found between one's extroversion score and other people's ratings of the subjects extroversion level: the higher the extroversion score for a particular subject, the higher other's perceived the subject extroversion levels to be. The effects are robust. See Annex 5 for a table showing homogeneous subsets.

F<sub>(2,24167)</sub> = 5196.421 p < 0.0001



#### EXTROVERSION SCORE AND EXTROVERSION RATED BY OTHERS

Others would say you are:

# 5. Relationship between extroversion score and score on other extroversion tests:

Question #5: Have you taken another introversion/ extroversion test? If so, you were qualified as: VALUE="1" > An introvert VALUE="2" > Somewhere in between VALUE="3" > An extrovert

Significant score differences were found among groups of subjects depending on their classification on other extroversion tests. Subjects who were classified as "extreme extroverts" on other extroversion tests had the highest extroversion scores while subjects who were classified as "extreme introverts" had the lowest extroversion scores. A positive relationship was found between one's extroversion score and their result (or classification) on other extroversion tests. The effects are robust. See Annex 6 for a table showing homogeneous subsets.

F<sub>(3,7317)</sub> = 1948.152 p < 0.0001



EXTROVERSION SCORE AND CLASSIFICATION ON OTHER EXTROVERSION TESTS

Have you taken another extroversion test? If so, you were qualified as:

#### 6. Relationship between extroversion score and age groups:

Question #6: Age:	
VALUE="1" > 10 - 15	
VALUE="2" > 16 - 18	
VALUE="3" > 19 - 24	
VALUE="4" > 25 – 29	
VALUE="4" > 30 – 34	
VALUE="5" > 35 – 39	
VALUE="6" > 40 – 49	
VALUE="7" > 50 – 59	
VALUE="8" > 60+	

Significant score differences were found among various age groups. The relationship seems to be linear – the older one is, the lower the extroversion score, but an increase in extroversion seems to take place once one reaches 50. The effects are robust. See Annex 7 for a table showing homogeneous subsets.

F<sub>(8,11210)</sub> = 67.83 p < 0.0001

#### **EXTROVERSION AND AGE GROUPS**



#### **Gender Differences**

#### Extroversion score:

- Women scored significantly higher than men on extroversion:
- $t_{(26161)} = 4.017$  p < 0.0001 Mean difference: 0.68

#### **GROUP STATISTICS**

	Gender	N	Mean	Std. Deviation S	td. Error Mean
Score	Women	17520	48.62	12.654	.096
	Men	8643	47.94	13.599	.146

#### INDEPENDENT SAMPLES TEST t-test for Equality of Means

	t	df	Sig. (2- tailed)	Mean Difference	Std. Error Difference	95% Confider of the	nce Interval Difference
Coore	4 0 4 7	06464	000	60	474	Lower	Upper
Score	4.017	26161	.000	.08	.171	.351	0.019

## • ANNEX 1 -Descriptive Statistics

Statistics

N Mean Std. Error of Mean Median Mode Std. Deviation Variance Skewness Std. Error of Skewness Kurtosis Std. Error of Kurtosis Range Minimum Maximum Sum Percentiles	1 5 10 15 20 25 30 35	$\begin{array}{r} 40887\\ 48.27\\ .064\\ 50.00\\ 50\\ 12.866\\ 165.541\\256\\ .012\\ .283\\ .024\\ 98\\ 2\\ 100\\ 1973703\\ 15.00\\ 25.00\\ 31.00\\ 35.00\\ 37.00\\ 40.00\\ 42.00\\ 44.00\\ \end{array}$
	30 35 40	42.00 44.00 46.00
	45 50 55 60 65 70 75	48.00 50.00 50.00 52.00 54.00 55.00 57.00
	80 85 90 95 97 99	57.00 59.00 61.00 63.00 68.00 71.00 76.00

#### **ANNEX 2 – Homogeneous Subsets**

The following tables present the homogeneous subsets for extroversion score with respect to self-esteem.

#### **EXTROVERSION SCORE**

Tukey HSD						
	Ν	Subset for alpha = .05				
How is your self- esteem?		1	2	3	4	5
Rock bottom	664	34.33				
Low	2277		38.81			
Could be better	9929			46.53		
Solid	9560				51.51	
Very Solid	2854					53.79
Sig.		1.000	1.000	1.000	1.000	1.000
Means for groups in a Uses Harmonic Me	homogeneo ean Sample	ous subsets are e Size = 1999.27	displayed. ′9.			

b The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

#### **ANNEX 3 – Homogeneous Subsets**

The following table presents the homogeneous subsets for extroversion score with respect to enjoyment interacting with others.

#### **EXTROVERSION SCORE**

Tukey HSD

	N Sı alı	ubset for oha = .05					
Do you enjoy interacting		1	2	3	4	5	6
with other people?							
Never	167	20.02					
Not very often	904		24.82				
Once in awhile	1601			32.76			
Sometimes	6034				40.36		
Most of the time	12223					51.41	
The more often the better	4593						61.15
Sig.		1.000	1.000	1.000	1.000	1.000	1.000
Maana far groupa in homogon		to oro diaple	avad				

Means for groups in homogeneous subsets are displayed. a Uses Harmonic Mean Sample Size = 733.130.

#### **ANNEX 4 – Homogeneous Subsets**

The following tables present the homogeneous subsets for extroversion score with respect to self-reported extroversion.

#### **EXTROVERSION SCORE**

Tukey HSD

	NSubse	t for alpha = .05		
Off the top of your head,		1	2	3
would you say you are:				
An introvert	7704	36.44		
Somewhere in between	12384		50.46	
An extrovert	4864			60.82
Sig.		1.000	1.000	1.000
loopo for groups in homogonoous	aubaata ara dianlau	a d		

Means for groups in homogeneous subsets are displayed.

a Uses Harmonic Mean Sample Size = 7209.040.

#### **ANNEX 5 – Homogeneous Subsets**

The following tables present the homogeneous subsets for extroversion score with respect to reported extroversion levels by others.

#### **EXTROVERSION SCORE**

	N Su	bset for alpha = 05		
Others would say you		1	2	3
are:				
An introvert	7144	38.16		
Somewhere in between	8288		48.50	
An extrovert	8738			55.90
Sig.		1.000	1.000	1.000
A f	e a colo a star a construir all'a co	La constat		

Means for groups in homogeneous subsets are displayed.

a Uses Harmonic Mean Sample Size = 7998.365.

#### **ANNEX 6 – Homogeneous Subsets**

The following tables present the homogeneous subsets for extroversion score with respect to results on other tests.

#### **EXTROVERSION SCORE**

Tukey HSD

	N	Subset for alpha = .05			
Have you taken another		1	2	3	4
introversion/extroversion test?					
If so, you were qualified as:					
An extreme introvert	992	31.44			
Somewhat introverted	3184		42.06		
Somewhat extroverted	2327			55.35	
An extreme extrovert	818				61.47
Sig.		1.000	1.000	1.000	1.000
Means for groups in homogeneous sub	osets are dis	played.			

a Uses Harmonic Mean Sample Size = 1344.824.

#### **ANNEX 7 – Homogeneous Subsets**

The following tables present the homogeneous subsets for extroversion score with respect to age group.

#### **EXTROVERSION SCORE**

Tukey HSD

	N Subse	t for alpha =		
Ago Groups		.05	2	3
Age Gloups	1011		2	5
40 – 49 yrs old	1814	45.55		
35 – 39 yrs old	1392	45.97		
50 – 59 yrs old	656	46.24	46.24	
30 – 34 yrs old	2069	46.38	46.38	
60 yrs+	163	46.80	46.80	
25 – 29 yrs old	3216	47.05	47.05	
19 – 24 yrs old	8058		48.12	
16 – 18 yrs old	6519			50.30
10 – 15 yrs old	2381			51.62
Sig.		.264	.060	.449

Means for groups in homogeneous subsets are displayed.

a Uses Harmonic Mean Sample Size = 863.659.