

The survey of evaluation of paranormal experiments

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Evaluation method

Many tests of ESP (extra sensoric perception), CV (clairvoyance) can be characterized by three numbers (**N**, **K**, **L**) where **N** is the number of choices, **K** is the number of trials, **L** is the limit of success. **N** and **K** determine the probability distribution and the function **R (i)** - for more details see [→](#)
 The rounded whole number **D = 1 / R (L)** specifies the difficulty of the test.
 The number **M** is the median of the distribution given by function **R**.
 The number of correct answers of the test is marked **A**.
 Let's assume that tested person must draw information from unknown sources for his/her decision-making (may be esoteric as heaven, hell, morphic field, spirits, ufos, etc.).
 If he/she did not succeed in the test, ie. **A < L**, he/she obviously drew information poorly, suffering information **deficit** which is measured in bits.
 This **deficit** is calculated from difference of logarithms of **R(L)** and **R(A)** probability values.
 Thus we can will determine how far is the unsuccessful tested person from of the paranormal ability.
 Information **deficit** is a logarithmic measure but the broader public would rather understand the linear measure called **debacle**, determining how many times the tested person would have to improve his/her performance to succeed in the test.

Computational details

Whole numbers **N > 1**, **K > 0**, $0 \leq L \leq K$.
 $0 \leq A \leq K$ and $0 \leq i \leq K$.
 Probability of binomial distribution is given by
 $p_i = \text{comb}(K, i) (N-1)^{K-i} / N^K$
 Function **R(i)** is calculated as follows
 $R(0) = 1$
 $R(i) = p_i + p_{i+1} + \dots + p_K \quad 1 \leq i \leq K$.
 Number **M** is the median of function **R**,
 thus $R(M) = 0.5$ and $-\log_2 R(M) = 1$.
 If **A < L** then the tested person failed and suffered from information
 $\text{deficit} = (-\log_2 R(L)) - (-\log_2 R(A)) > 0$
 and $\text{debacle} = 2^{\text{deficit}} > 1$.
 Otherwise tested person succeeded.
 Deficit calculation for given league:
 $\text{deficit} = (-\log_2 R(D_{\text{league}})) - (-\log_2 R(A)) > 0$

Table 1 Test types

ID type of experiment	N no. of choices	K no. of trials	L limit for success	D difficulty	M median	no. of tested persons = under + over A ≤ M A > M
.DE GWUP 20704 – 2018 phase 1						57 = 31 + 26 SUBTOTAL
GW2	2	50	40	83815	25.50	17 = 8 + 9 B. Textor
GW10	10	13	7	10072	1.67	36 = 21 + 15 B. Krockner. G. Gabrisch
GW5 ball	5	420	122	64268	84.40	1 = 0 + 1
GW10 c-ball	10	300	52-55	14980	30.37	2 = 1 + 1
GW2 illness	2	38	34	3312061	19.50	1 = 1 + 0
GW3 hom-pat	3	12	11	21258	4.45	HOMEOPATHY - NOT YET PERFORMED
.CZ PV - Sisyfos 2013 – 2018 phase 1						9 = 6 + 3 SUBTOTAL
PV1	2	30	25	6155	15.50	5 = 3 + 2 S. Bradley. J. Pišoja , ...
PV2	3	20	15	5975	7.11	2 = 2 + 0 D. Klímová, P. Vojtěch
PV2a	3	20	14	1137	7.11	1 = 1 + 0 I. Grundová
PV3	6	14	8	1455	2.72	NOT YET PERFORMED
PV4	12	15	6	1157	1.62	1 = 0 + 1 M. Hein
.CZ ZV – Zadna Veda 2016						
ZV	6	72	23	932	12.39	11 = 4 + 7 ThC.
Results: 41 under M and all under L, ie. nobody passed						77 = 41 + 36 TOTAL

Leagues

The test difficulty **D** is hard to set exactly by the triple (**N**, **K**, **L**). For rough comparability and comprehensibility of the tests, the qualification leagues are set out as follows:

D _{league}	league	random victory probab.
10	5th	1/10 'very funny'
100	4th	1/100 'funny'
1 000	3rd	1/1000 Sysifos phase 1
10 000	2nd	1/10000 Sysifos phase 2
100 000	1st	1/100000
10 ⁶	EXTRA	James Randi rate
10 ⁷	SUPER	Sisyfos phases 1 x 2
10 ⁸	MARVEL	GWUP phases 1 x 2
10 ⁹	ULTRA	GWUP phases 1 x 2

So far, nobody has reached the **deficit = 0** with contract difficulty in easier 3rd league. Only 4 tested qualified in 5th league. Only 2 tested qualified in 4th league.

Prizes for victors

GWUP offers a one-time sum of **10 000 EUR**. A person tested must pass a test of phase 1 but also a stricter test of phase 2. Eg.: (2,60,46) or (10,18,10) with **D₂ = 47 350** or **488 998**. Total **D = D₁ x D₂ = 3 968 883 950** or **4 922 228 785** - ie. **ULTRA** league. **GW3 hom-pat** is easier **D = 21258 x 21258 = 451 902 564** - ie. **MARVEL** league, only.

PV - Sisyfos offers a sum of **10 000 CZK** (about **400 EUR**) for each victor of phase 1 where **D₁ ≥ 1 000**, ie. 3rd league. The entry fee is **2 000 CZK (74 EUR)**. The one-time exclusive prize for phase 2 is **3 333 333 CZK (about 123456 EUR)** where **D₂ ≥ 10 000**, but total **D = D₁ x D₂ ≥ 10⁷**.

Table 2 Results of 36 tested persons (A > M)

A	Group ID ← size	DEFICIT:				DEBACLE:				league qualified tested persons
		contract	3.	2.	1.	contract	3.	2.	1.	
36	1 GW2	6.77	0.38	3.70	7.02	109	1.3	13	130	4 B. Textor
34	1 GW2?	9.33	2.94	6.26	9.58	643	8	77	767	4 Groger1 discard
32	1 GW2	11.41	5.02	8.34	11.66	2720	32	325	3245	5 ?
4	1 GW10	8.43	5.09	8.42	11.74	344	34	342	3416	5 G. Gabrisch
99	1 GW5 ball	12.70	5.34	8.66	11.98	6649	40	405	4048	5 ?
18	1 ZV ThC	5.43	5.53	8.85	12.17	43	46	462	4621	5 ThC.
19	1 PV1 Bradley	9.27	6.65	9.97	13.29	617	100	1002	10024	S. Bradley
30	1 GW2	13.05	6.66	9.98	13.31	8492	101	1013	10132	
3	4 GW10	10.40	7.06	10.39	13.71	1348	134	1339	13388	
36	1 GW10 c-ball	11.09	7.18	10.51	13.83	2177	145	1453	14534	
18	1 PV1 Pisoja	10.12	7.50	10.82	14.14	1113	181	1808	18080	J. PISOJA
15	3 ZV student	7.62	7.72	11.04	14.36	96	211	2106	21065	
28	3 GW2	14.30	7.91	11.23	14.55	20112	240	2399	23994	
14	1 ZV boy2	8.17	8.27	11.59	14.91	287	308	3081	30810	
27	1 GW2	14.78	8.39	11.71	15.04	28155	336	3359	33591	
2	1 PV4 Hein	8.70	8.49	11.81	15.13	416	359	3592	35916	M. HEIN
2	10 GW10	11.90	8.56	11.89	15.21	3814	379	3787	37866	
13	2 ZV mother	8.63	8.73	12.05	15.37	395	424	4237	42372	
26	1 GW2	15.18	8.79	12.12	15.44	37203	444	4439	44386	
recalculated sorted										

References

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