

Appendix K

Conversion of IMP Margin of Victory to Victory Points (VPs)

At the option of the sponsoring organization, Swiss Teams scored by Victory Points (VPs) may use any of three different scoring scales: the 20 point scale, the 30 point scale, or the NABC+ VP scale. Details for all three scales are shown below.

20 Point scale

Boards	1-8	9-11	12-15	16-20	21-27	28-36
VP Split	IMP Difference	IMP Difference	IMP Difference	IMP Difference	IMP Difference	IMP Difference
10-10	0	0	0	0-1	0-2	0-3
11-9	1-2	1-2	1-3	2-4	3-6	4-8
12-8	3-4	3-5	4-6	5-8	7-11	9-14
13-7	5-7	6-9	7-10	9-13	12-17	15-21
14-6	8-10	10-13	11-14	14-18	18-24	22-29
15-5	11-13	14-17	15-19	19-24	25-32	30-38
16-4	14-16	18-21	20-24	25-31	33-41	39-48
17-3	17-19	22-25	25-29	32-38	42-50	49-59
18-2	20-23	26-30	30-35	39-46	51-60	60-71
19-1	24-27	31-35	36-41	47-55	61-71	72-84
20-0	28+	36+	42+	56+	72+	85+

30 Point scale

Boards	1-8	9-11	12-15	16-20	21-27	28-36
VP Split	IMP Difference	IMP Difference	IMP Difference	IMP Difference	IMP Difference	IMP Difference
15-15	0	0	0	0-1	0-2	0-2
18-12	1	1	1-2	2-3	3-5	3-6
19-11	2	2	3-4	4-6	6-8	7-10
20-10	3	3-4	5-6	7-9	9-12	11-15
21-9	4	5-6	7-8	10-12	13-16	16-20
22-8	5-6	7-8	9-11	13-16	17-21	21-26
23-7	7-8	9-11	12-14	17-20	22-26	27-33
24-6	9-10	12-14	15-18	21-24	27-31	34-41
25-5	11-13	15-17	19-22	25-29	32-37	42-50
26-4	14-16	18-21	23-26	30-34	38-44	51-60
27-3	17-19	22-25	27-31	35-40	45-52	61-71
28-2	20-23	26-30	32-36	41-47	53-61	72-83
29-1	24-27	31-35	37-41	48-55	62-71	84-95
30-0	28+	36+	42+	56+	72+	96+

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NABC+ VP scale

The ACBL NABC+ Victory Point Scale is calculated by the following formula:

- 1) Calculate 15 times the square root of the number of boards in the match. Call this B.
- 2) Calculate the “Golden Mean” which is $(\sqrt{5}-1)/2$, approximately 0.618. Call this value Tau.

For any IMP margin (value M) where M is less than B, the winner’s VP will be given by

$$V=10 + 10*(1-\text{Tau}^{(3M/B)})/(1-\text{Tau}^3).$$

If M greater than or equal to B, the winner gets 20 VP.
The loser gets 20-Winner’s VP.