

### Suit Break Frequencies - 9, 10, 11 card fit

In a set of 32 boards, the actual percentage for 3-1 breaks is most often between 40% and 60% - ish (08 and 1.2 of the theoretically expected percentage - 49.7%), although most of the time it is around 50%. This translates to 8 - 11 3-1 breaks per set. For 1-1 and 2-0 breaks the graphs would be meaningless as these breaks only occur once every two sets on average.

For 4-0 and 3-0 breaks, the variation seems fairly high. Perhaps it would look better for larger sets, as there are only one to two 4-0 or 3-0 breaks per deal.

| Variation | 1 - 1 | 2 - 0 | 2 - 1 | 3 - 0 | 2 - 2 | 3 - 1 | 4 - 0 |
|-----------|-------|-------|-------|-------|-------|-------|-------|
| 0         | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| 0.1       | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| 0.2       | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| 0.3       | 0     | 0     | 1     | 0     | 0     | 0     | 0     |
| 0.4       | 0     | 0     | 0     | 1     | 1     | 0     | 3     |
| 0.5       | 1     | 1     | 1     | 2     | 4     | 0     | 12    |
| 0.6       | 0     | 1     | 5     | 6     | 1     | 7     | 8     |
| 0.7       | 4     | 3     | 6     | 5     | 9     | 7     | 12    |
| 0.8       | 1     | 0     | 10    | 9     | 19    | 9     | 1     |
| 0.9       | 0     | 0     | 14    | 0     | 17    | 26    | 7     |
| 1         | 17    | 0     | 23    | 10    | 23    | 21    | 7     |
| 1.1       | 0     | 17    | 24    | 1     | 21    | 18    | 14    |
| 1.2       | 0     | 0     | 9     | 14    | 13    | 27    | 7     |
| 1.3       | 3     | 1     | 46    | 8     | 6     | 14    | 7     |
| 1.4       | 0     | 4     | 0     | 0     | 13    | 6     | 9     |
| 1.5       | 1     | 0     | 0     | 0     | 8     | 4     | 7     |
| 1.6       | 1     | 1     | 0     | 14    | 3     | 2     | 1     |
| 1.7       | 0     | 0     | 0     | 0     | 2     | 0     | 3     |
| 1.8       | 0     | 0     | 0     | 0     | 1     | 0     | 6     |
| 1.9       | 0     | 0     | 0     | 7     | 0     | 0     | 3     |
| 2         | 32    | 0     | 0     | 3     | 0     | 0     | 1     |
| 2.1       | 0     | 31    | 0     | 0     | 0     | 0     | 3     |
| 2.2       | 0     | 0     | 0     | 0     | 0     | 0     | 1     |

