

# M

## Spectra of Lotto Systems with maximum chances

Chapter 17 lists the important lotto systems that provide maximum chances in pick-5, pick-6 and pick-7 lotto. Here we give their spectra so that you can compute the chances as we showed how in Appendix K.4.

### M.1 Spectrum of the Steiner system $S(2,5,21)$

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Table M.1 is the Steiner  $(2, 5, 21)$ -design and Table M.2 is its spectrum.

$n = 21, k = 5$											
1.	1	2	3	4	5	12.	3	9	17	20	21
2.	1	6	9	11	19	13.	3	10	11	14	16
3.	1	7	13	16	17	14.	4	6	7	10	20
4.	1	8	10	18	21	15.	4	8	11	15	17
5.	1	12	14	15	20	16.	4	9	12	16	18
6.	2	6	14	17	18	17.	4	13	14	19	21
7.	2	7	11	12	21	18.	5	6	15	16	21
8.	2	8	16	19	20	19.	5	7	8	9	14
9.	2	9	10	13	15	20.	5	10	12	17	19
10.	3	6	8	12	13	21.	5	11	13	18	20
11.	3	7	15	18	19						

**Table M.1.**  $S(2, 5, 21)$