

Stat 296 Fall 2007
The Runs Test

Example: Below is a list of the winning numbers for the *Western Pick 3* lottery for the last four months (available from <http://www.lottolore.com>). At the $\alpha = 0.05$ significance level, are these lottery numbers selected at random?

		30 Sep 2007	518	31 Aug 2007	606	31 Jul 2007	509
		29 Sep 2007	956	30 Aug 2007	135	30 Jul 2007	897
		28 Sep 2007	693	29 Aug 2007	028	29 Jul 2007	750
24 Oct 2007	562	27 Sep 2007	197	28 Aug 2007	757	28 Jul 2007	260
23 Oct 2007	794	26 Sep 2007	703	27 Aug 2007	221	27 Jul 2007	440
22 Oct 2007	093	25 Sep 2007	871	26 Aug 2007	248	26 Jul 2007	977
21 Oct 2007	839	24 Sep 2007	788	25 Aug 2007	000	25 Jul 2007	415
20 Oct 2007	791	23 Sep 2007	355	24 Aug 2007	957	24 Jul 2007	103
19 Oct 2007	664	22 Sep 2007	611	23 Aug 2007	087	23 Jul 2007	789
18 Oct 2007	220	21 Sep 2007	303	22 Aug 2007	117	22 Jul 2007	012
17 Oct 2007	613	20 Sep 2007	556	21 Aug 2007	793	21 Jul 2007	146
16 Oct 2007	709	19 Sep 2007	507	20 Aug 2007	921	20 Jul 2007	509
15 Oct 2007	298	18 Sep 2007	123	19 Aug 2007	502	19 Jul 2007	205
14 Oct 2007	192	17 Sep 2007	626	18 Aug 2007	716	18 Jul 2007	339
13 Oct 2007	208	16 Sep 2007	371	17 Aug 2007	442	17 Jul 2007	405
12 Oct 2007	808	15 Sep 2007	867	16 Aug 2007	901	16 Jul 2007	546
11 Oct 2007	213	14 Sep 2007	004	15 Aug 2007	373	15 Jul 2007	772
10 Oct 2007	944	13 Sep 2007	492	14 Aug 2007	565	14 Jul 2007	100
9 Oct 2007	099	12 Sep 2007	280	13 Aug 2007	324	13 Jul 2007	026
8 Oct 2007	780	11 Sep 2007	183	12 Aug 2007	015	12 Jul 2007	575
7 Oct 2007	272	10 Sep 2007	951	11 Aug 2007	969	11 Jul 2007	409
6 Oct 2007	456	9 Sep 2007	566	10 Aug 2007	501	10 Jul 2007	437
5 Oct 2007	189	8 Sep 2007	024	9 Aug 2007	583	9 Jul 2007	081
4 Oct 2007	608	7 Sep 2007	741	8 Aug 2007	534	8 Jul 2007	325
3 Oct 2007	812	6 Sep 2007	820	7 Aug 2007	400	7 Jul 2007	899
2 Oct 2007	486	5 Sep 2007	839	6 Aug 2007	964	6 Jul 2007	671
1 Oct 2007	081	4 Sep 2007	380	5 Aug 2007	039	5 Jul 2007	341
		3 Sep 2007	845	4 Aug 2007	855	4 Jul 2007	693
		2 Sep 2007	142	3 Aug 2007	975	3 Jul 2007	855
		1 Sep 2007	847	2 Aug 2007	099	2 Jul 2007	179
				1 Aug 2007	313	1 Jul 2007	315