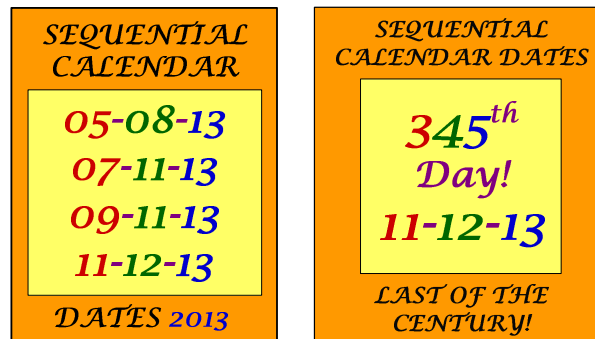


Sequential Calendar Dates of 2013

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If a calendar date in day-month-year date format is expressed as a six-digit number using only the rightmost two digits of the year, like today's date being 07-11-13, representing 7 November 2013, this year contains some very interesting sequential calendar dates.

First, consider today's date, 07-11-13, where 7, 11, and 13 are three consecutive prime numbers. Each century contains four such sequential prime-number calendar dates. The first one was 02-03-05 representing 2 March 2005 in this century and the last one is today's date, 07-11-13 (see Table 1). Wow!

Second, the date of 9 November 2013, expressed as 09-11-13, consists of three consecutive odd integers, 9, 11, and 13. Each century has five of these sequential odd-number calendar dates, the first being 01-03-05 representing 1 March 2005 in this century and the last one is 09-11-13, to occur later this week (see Table 2). Note that the last similar sequential even-number calendar date of this century will be 10-12-14, to occur in 2014, next year (see Table 3).

Third, consider the date of 11 December 2013, to occur next month, expressed as 11-12-13, where 11, 12 and 13 are three consecutive integers. Each century contains eleven such sequential number calendar dates, the first being 01-02-03 (1 February 2003 in this century) and 11-12-13, which is 11 December 2013, will be the last such sequential calendar date of this century (see Table 4). Also, interestingly enough, sequential calendar date 11-12-13 always coincides with the 345th day of its year, where digits 3, 4 and 5 also form a sequential series.

Fourth, consider sequential perfect square calendar dates consisting of three consecutive square numbers. There are two such dates in each century. The first in this century occurred on 01-04-09 (1 April 2009) and the second (last) one will be 04-09-16, to occur on 4 September 2016 (see Table 5).

Lastly, consider calendar date 5 August 2013 written as 05-08-13, where 5, 8, and 13 constitute three consecutive Fibonacci numbers. There are five such sequential Fibonacci-number calendar dates in every century, the first one being 01-01-02 and the last one is 05-08-13. Table 6 lists all the five sequential Fibonacci-number calendar dates that occurred in this century.

Note that these types of sequential calendar dates are all clustered around the first two decades of each century, simply due to the fact that the month number of a calendar date cannot exceed 12. However, there exist other types of sequential calendar dates which extend further into the century. For example, each century contains only one sequential cube-number calendar date, expressed as 01-08-27. In this century, 01-08-27 represents calendar date 1 August 2027 (see Table 7).

Sequential calendar dates are really fun brainteasers and interestingly enough, 07-11-13 (today), 09-11-13 (this Saturday), and 11-12-13 (11 December 2013 next month) are each the last of their kind, to occur in this century. So, I hope you will fully enjoy the cluster of these three sequential calendar

dates. Also, pay special attention to the time at 02:03:05 today, because this time can be expressed in terms of six consecutive prime numbers as 02:03:05-07-11-13. Similarly, pay special attention to the time at 03:05:07 on Saturday since this time can be expressed with six consecutive odd numbers as 03:05:07-09-11-13. In addition, time 08:09:10 on 11-12-13 will be unique because it can be expressed in terms of six consecutive numbers as 08:09:10-11-12-13. This is really fun!

Table 1—Sequential Prime-Number Calendar Dates of the 21st Century

1. 2 March 2005	02-03-05	3. 5 July 2011	05-07-11
2. 3 May 2007	03-05-07	4. 7 November 2013	07-11-13

Table 2—Sequential Odd-Number Calendar Dates of the 21st Century

1. 1 March 2005	01-03-05	4. 7 September 2011	07-09-11
2. 3 May 2007	03-05-07	5. 9 November 2013	09-11-13
3. 5 July 2009	05-07-09		

Table 3—Sequential Even-Number Calendar Dates of the 21st Century

1. 2 April 2006	02-04-06	4. 8 October 2012	08-10-12
2. 4 June 2008	04-06-08	5. 10 December 2014	10-12-14
3. 6 August 2010	06-08-10		

Table 4—Sequential Number Calendar Dates of the 21st Century

1. 1 February 2003	01-02-03	7. 7 August 2009	07-08-09
2. 2 March 2004	02-03-04	8. 8 September 2010	08-09-10
3. 3 April 2005	03-04-05	9. 9 October 2011	09-10-11
4. 4 May 2006	04-05-06	10. 10 November 2012	10-11-12
5. 5 June 2007	05-06-07	11. 11 December 2013	11-12-13
6. 6 July 2008	06-07-08		

Table 5—Sequential Perfect Square Calendar Dates of the 21st Century

1. 1 April 2009	01-04-09
2. 4 September 2016	04-09-16

Table 6—Sequential Fibonacci-Number Calendar Dates of the 21st Century

1. 1 January 2002	01-01-02	4. 3 May 2008	03-05-08
2. 1 February 2003	01-02-03	5. 5 August 2013	05-08-13
3. 2 March 2005	02-03-05		

Table 7—Sequential Cube-Number Calendar Dates of the 21st Century

1. 1 August 2027	01-08-27
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