

11 Palindrome Dates in June 2016

Aziz Inan, Electrical Engineering
University of Portland, Portland, Oregon
June 10, 2016

11 Palindrome Dates in June 2016

- ✓ 6-1-16
- ✓ 6-10-16 or 6-10-2016
- ✓ 6-11-16
- ✓ 6-12-16
- ✓ 6-13-16
- ✓ 6-14-16
- ✓ 6-15-16
- ✓ 6-16-16
- ✓ 6-17-16
- ✓ 6-18-16
- ✓ 6-19-16

Huh? 11 palindrome days?
Wow!

Baris & Aziz

Friday, June 10, 2016 expressed in month/day/year date format as 6/10/2016 or simply as 6102016 is a palindrome date, the ninth to occur in this century.

Palindrome dates are rare and the 21st century contains a total of 38 of them, 12 written with eight digits and the other 26 expressed in terms of seven digits just like 6/10/2016 [1].

The first eight-digit palindrome date in this century occurred in 2001 on October 2 written as 10/02/2001. The first seven-digit palindrome date happened in 2011 on January 10 expressed as 1/10/2011.

Note that in day/month/year date format used by most countries in the world, 6/10/2016 will also be a palindrome date to occur this year however it will happen later on 6 October 2016. Interestingly enough, there are also a total of 38 palindrome dates in day/month/year date format, nine of which are expressed in terms of seven digits and the other 29 consist of eight digits. October 6, 2016 expressed as 6/10/2016 will mark the 11th palindrome date in the day/month/year date format.

In the case when the year number of the calendar date is shortened to two digits corresponding to the rightmost two digits of the year number, this Friday's date will be written as 6/10/16, also a palindromic date. Indeed, in the shortened date format, this month contains not one but 11 such palindrome dates! One of these palindrome dates already occurred on June 1, 2016 expressed as 6/1/16 and the other ten to occur are distributed consecutively between June 10, 2016 (6/10/16) and June 19, 2016 (6/19/16). Note however that in the shortened day/month/year date format, unlike 11, there are only a total of four such palindrome dates: 6/1/16, 6/10/16, 6/11/16, and 6/12/16 representing 6 January 2016, 6 October 2016, 6 November 2016, and 6 December 2016, respectively.

Also, as an aside, palindrome day 6/10/2016 to occur this Friday possesses two additional special numerical properties which are worth to mention.

First, 6102016 equals $2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 59 \times 101$ where the sum of the prime factors 2, 59, and 101 equals 162. Interestingly enough, the 162nd day of 2016 coincides with June 10, 2016, that is, 6/10/2016. Doesn't this make palindrome date 6102016 more special?

Second, 162 can also be written in a palindromic form as $3 \times 3 \times 2 \times 3 \times 3$.

Palindrome dates are interesting and fun and although they seem to be simple, they still possess the power of teasing one's brain which we all need.

I hope you enjoy 6/10/2016 and the other palindrome dates to occur in this month!

[1] A. S. Inan, "Palindrome Dates in 2011," *The Beacon*, Vol. 112, Issue No. 8, pp. 12 & 13, University of Portland, Portland, Oregon, October 28, 2010.

Aziz Inan is an electrical engineering professor at University of Portland. Aziz Inan can be reached at ainan@up.edu.