

### **Anything Special About David Letterman's 67th Birthday?**

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## *Happy Birthday, David Letterman!*



#### Top Ten Birthday Brainteasers:

1. My new age  $x$  is a prime number
2.  $x$  is the  $y$ -th prime, where  $y$  is also a prime
3. Reverse of  $x$  is 4 times  $y$
4.  $x$  plus  $y$  equals the reverse of my next age
5. The digits of  $x$  add up to a prime
6.  $x$  equals the sum of five consecutive primes
7. The sum of the reverses of  $x$  and  $y$  end with  $x$
8. ...

American late night television talks show host David Letterman (born April 12, 1947) turned 67 this week [1, 2], on April 12, 2014 and in response to the question, "Is there anything special about David Letterman's 67th birthday?", my response will be: You bet there is and here are the top ten numerical brainteaser reasons as to why:

1. If the date number of Letterman's 67th birthday, April 12, 2014 is expressed as 4-12-14, Letterman's 67th birthday was a palindrome day. Wow!
2. If Letterman's 67th birthday is expressed in full as 4122014, the prime factors of this date number (2, 13, 23, 61, and 113) add up to 212, another palindrome!
3. Letterman's new age, 67, equals palindrome 232 in base-5 number system and 151, another palindrome, in base-6 number system.
4. Letterman will have truly palindrome birthdays in 2140, on 04-12-2140, and then in 2214, on 4-12-2214.
5. The reverse of three times Letterman's new age, 67, is 102, and interestingly enough, Letterman's 67th birthday, April 12, 2014, coincides with the 102nd day of this year.
6. Also, if Letterman's new age, 67, is split into digits 6 and 7, the 6th and 7th prime numbers are 13 and 17, and the sum of the reverses of these two primes also yield 102.
7. In addition, if numbers 1 to 26 are assigned to the letters of the English alphabet (A being 1, B = 2, etc.), 102 (the reverse of three times 67) equals twice 51, where 51 equals the sum of the numbers assigned to the letters of Letterman's middle name, "Michael".
8. Letterman's new age, 67, is the 19th prime number and interestingly enough, the reverse of four times 19 yields back 67.
9. Twice the sum of the prime factors of 2014 (2, 19, and 53) equals 148. Coincidentally, the sum of the numbers assigned to the letters of "David Letterman" also equals 148.

10. Lastly, the numbers assigned to the letters of CBS TV “Late Show” with David Letterman add up to 103 and interestingly enough, 103 multiplied by the sum of its digits yield 412, corresponding to Letterman’s birth date, April 12. Isn’t this fun?

Happy 67th birthday, David Letterman!

[1] A. S. Inan, “2013 Top Ten Birthday Brainteasers for David Letterman,” April 12, 2013.

<http://faculty.up.edu/ainan/DavidLetterman66thBirthday4122013.pdf>

[2] A. S. Inan, “Top Ten Birthday Brainteasers for David Letterman,” April 12, 2012.

<http://faculty.up.edu/ainan/TopTenBirthdayBrainteasersDavidLetterman2012.pdf>

Aziz S. Inan is a professor of electrical engineering teaching at University of Portland for 25 years. As a hobby, he enjoys finding interesting numerical properties associated with numbers, connections and coincidences between numbers, calendar dates, birthdays, historical dates, etc. He can be reached at 503-943-7429 or [ainan@up.edu](mailto:ainan@up.edu). (Note that the purpose of this article is solely recreational and for fun.)