

Happy 60th Birthday, Oprah Winfrey!

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Oprah Gail Winfrey
(Born: January 29, 1954, in Kosciusko, Mississippi)

Oprah Gail Winfrey (born on January 29, 1954) is an American media proprietor, talk show host, actress, producer, and philanthropist [1]. This Wednesday, January 29, 2014 will mark her 60th birthday and on this special occasion, I constructed the following numerical brainteasers as a birthday gift for her:

1. If numbers 1 to 26 are assigned to the letters of the English alphabet (A = 1, B = 2, etc.), the numbers assigned to the letters of Oprah's middle name, "Gail," add up to 29. Coincidentally, Oprah's birthday falls on the 29th day of each year. In addition, the day number of her birthday is 29.
2. Similarly, the sum of the numbers assigned to the letters of "Oprah" is 58, which equals twice 29.
3. The numbers assigned to the letters of Oprah's last name, "Winfrey," add up to 100, the reverse of which is one, Oprah's birth month number.
4. The numbers assigned to the letters of "Gail Winfrey" add up to 129, Oprah's birth date, January 29. Wow! (In addition, half of the sum of the numbers of the letters of "Oprah" plus the sum of the numbers assigned to the letters of "Winfrey" also yields 129.)
5. Oprah's new age, 60, equals twice the sum of the month and day numbers of her birthday.
6. The square of the sum of prime factors of 60 (2, 3, and 5) yield 100, coinciding with the sum of the numbers assigned to the letters of Oprah's last name, "Winfrey"!
7. The numbers assigned to the letters of "Oprah Winfrey" add up to 158. The reverse of 158 is 851, which is 23 times 37, where the sum of these two primes yields 60, Oprah's new age.
8. The numbers assigned to the letters of "Oprah Gail Winfrey" add up to 187. The reverse of 187 is 781, which is 11 times 71, where these two primes differ by 60, again, Oprah's new age.
9. Oprah's first birthday: The reverse of Oprah's first full birthday (January 29, 1955) can be expressed as 5591921 and this number equals 851×6571 , where reverse of 851 is 158, coinciding with the sum of the numbers assigned to the letters of "Oprah Winfrey".
10. Oprah's 29th birthday: Oprah's 29th birthday that occurred in 1983 is numerically special. Why? Because she turned 29, on January 29, the 29th day of 1983. In addition, the full date of her 29th birthday expressed as 1291983 is divisible by 187, the sum of the numbers assigned to the letters of "Oprah Gail Winfrey."

11. Oprah's 30th birthday: Oprah's 30th birthday that occurred in 1984 is also numerically special. Why? If the full date of her 30th birthday written as 1291954 is split as 1, 29, and 1954, these three numbers add up to 1984.
12. Oprah's 45th birthday: Oprah's 45th birthday that occurred in 1999 is a "reverse perfect square date" [2]. Why? If written in full as 1291999, the reverse of this date number is a perfect square, which equals 3161×3161 .
13. Oprah's 78th birthday: Oprah's 78th birthday is to occur in 2032, where the prime factors of 2032, which are 2 and 127, add up to 129, representing Oprah's birth date, January 29.
14. Oprah's 100th birthday: Oprah's 100th birthday will occur in 2054, where 2054 is divisible by 158, the sum of the numbers assigned to the letters of "Oprah Winfrey."
15. Oprah's 110th birthday: Oprah's 110th birthday expressed in full as 1292064 is divisible by 129, representing her birth date, January 29.
16. Oprah's 146th birthday: Oprah's 146th birthday in 2100 will be numerically special since 2100 equals twice the sum of 129 (representing Oprah's birth date, January 29) and its reverse, 921.
17. Oprah's 160th birthday: 100 years later, Oprah's 160th birthday expressed in full as 1292114 equals $2 \times 19 \times 37 \times 919$, where twice the sum of these four primes yields Oprah's birth year, 1954!
18. Oprah turns 22,222 days old in 2014: In addition to her 60th birthday, this year contains another special calendar date for Oprah. Why? Monday, December 1, 2014 (12012014) will mark the 22,222th day in her life. Isn't this something?

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[1] Oprah Winfrey, Wikipedia

http://en.wikipedia.org/wiki/Oprah_Winfrey

[2] A. S. Inan, "April's reverse square date," *The Beacon*, Vol. 112, Issue No. 21, pp. 13 & 14, University of Portland, Portland, Oregon, March 31, 2011.