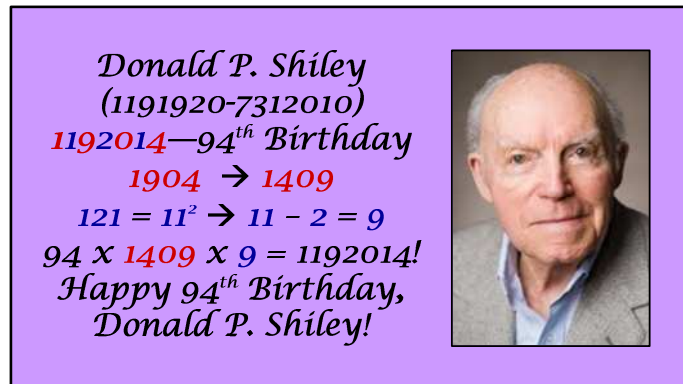


Donald P. Shiley's 94th Birthday is Numerically "Magical"

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Donald P. Shiley
(1191920-7312010)
1192014—94th Birthday
1904 → 1409
121 = 11² → 11 - 2 = 9
94 x 1409 x 9 = 1192014!
Happy 94th Birthday,
Donald P. Shiley!

Donald P. Shiley was born on January 19, 1920 (1-19-1920, or simply, 1191920) and died on July 31, 2010 (7312010), at age 90 [1-3].

This month, Sunday, January 19, 2014 (1192014) will mark Mr. Shiley's 94th birthday. To express my sincere gratitude to this great man and his wife, University regent, Darlene Shiley, for their generous contributions to Donald P. Shiley School of Engineering, I revisited some of the numbers related to them and constructed the following numerical brainteasers birthday gift for Mr. Shiley:

1. First, split the full date of Donald Shiley's 94th birthday, 1192014, into two numbers by separating the odd-numbered and even-numbered digits as 1904 and 121. Then, switch the places of digits 9 and 4 in 1904, yielding 1409. Also, $121 = 11^2$, where $11 - 2 = 9$. Now, go ahead and multiply numbers 1409, 9, and 94. What comes out? (Answer: 1192014!) Wow! Isn't this like "magic"?
2. Second, Donald Shiley's birth date January 19 can be expressed as 119. If 119 is split as 11 and 9, $11 - 9 = 2$. Interestingly enough, the full date of Mr. Shiley's 94th birthday can be obtained from numbers 119 and 2 in a "magical" way and here is how: $119 \times (2 \times 2)^2 = 1904$ and $119 + 2 = 121$. Intertwine numbers 1904 and 121. What did you obtain? (Answer: Again, 1192014.) Fascinating, isn't it?

Donald Shiley's new age, 94, also possesses other unique numerical properties:

3. $94 = 2 \times 47$, where the reverse of the sum of these two primes (2 and 47) yield back 94!
4. 94 equal twice 47, where reverse of 47, which equal 74, is $2 + 19 + 53$, where the product of these three primes yield $2 \times 19 \times 53 = 2014$, the year Mr. Shiley turns 94.
5. Further, the reverses of the above three primes 2, 19, and 53 add up to $2 + 91 + 35 = 128$, which coincidentally equals the sum of the numbers assigned to the letters of "Donald Shiley" [1].
6. $94 = 30 + 64$, where the product of 30 and 64 yield Mr. Shiley's birth year, 1920.
7. 94 equal the reverse of the square of the sum of the digits of 2014.
8. The reverse of 94, which is 49, equals 7^2 , where $7 \times 2 = 14$, corresponding to the rightmost two digits of 2014.

Lastly, I found an interesting numerical connection between Donald Shiley's birth date 119 (January 19) and Darlene Shiley's name.

9. Before marrying Mr. Shiley in 1978, Darlene Shiley's name was Darlene Loran. I went ahead and assigned numbers 1 to 26 to the letters of the English alphabet (A = 1, B = 2, etc.) and the sum of the numbers assigned to the letters of "Darlene" and "Loran" came out to be 59 and 60, respectively. Then, when I added these two numbers, to my surprise, I got 119, which coincides with Mr. Shiley's birth date, January 19. Isn't this a perfect match?

Happy 94th birthday, Donald P. Shiley!

[1] A. S. Inan, "Donald P. Shiley's Birthday," *Upbeat*, University of Portland, Portland, Oregon, January 14, 2013.

<http://wordpress.up.edu/upbeat/donald-p-shileys-birthday/>

[2] A. S. Inan, "Aziz Inan Celebrates Donald P. Shiley's 93rd "Birthday"," posted on *Donald P. Shiley School of Engineering* website, University of Portland, Portland, Oregon, January 18, 2012.

<http://www.up.edu/shownews.aspx?id=4732>

[3] A. S. Inan, "Numbers add up for Donald Shiley," *The Beacon*, Vol. 112, Issue No. 14, p. 12, University of Portland, Portland, Oregon, February 3, 2011.

<http://upbeacon.com/2011/02/03/numbers-add-up-for-donald-shiley/>