

Farewell birthday trivia for Tom Greene

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June 30, 2020

University of Portland Provost Dr. Tom Greene is retiring today and I put together the following farewell birthday trivia to thank him for his leadership and friendship:

1. Multiply the left and right halves of Tom's birth year $Y_1Y_2Y_3Y_4$ to obtain the number X . Then, look up the X^{th} prime number. Next, subtract the X^{th} prime number from the reverse of Tom's birth year, namely $Y_4Y_3Y_2Y_1$, and read the result backwards. Surprise!
2. Further, if Tom's full birthday $M_1M_2/D_1D_2/Y_1Y_2Y_3Y_4$ is split into M_1M_2 , D_1D_2 , Y_1Y_2 , and Y_3Y_4 , interestingly, half of the sum of M_1M_2 and D_1D_2 yields Y_1Y_2 , and twice the difference of M_1M_2 and D_1D_2 results in Y_3Y_4 .
3. Tom's birthday this year (2020) is numerically special: double the sum of the squares of the month and day numbers of his birthday. What comes out?
4. The reverse of the difference of the squares of the digits of Tom's new age this year equals the sum of the letter numbers of his last name, Greene.
5. Tom's 75th birthday will be special since the reverse of 75, namely 57, equals the sum of the letter numbers of his middle name, George.
6. Tom's 76th birthday will also be special since 76 equals the sum of the letter numbers of Thomas. Additionally, the rightmost two digits of that year equals the difference of the month and day numbers of his birthday.
7. Tom's 83rd birthday will be special too since 83 equals the sum of the reverses of the month and day numbers of his birthday, namely $(M_2M_1 + D_2D_1)$.
8. Tom's 89th birthday will be a five-digit palindrome date. Also, 89 is the 24th prime number (see item # 6).
9. His 90th birthday expressed as $M_1M_2/D_1D_2/Y_3Y_4$ will be special too since $Y_3Y_4 = M_1M_2 + D_1D_2$.
10. Tom's 100th birthday expressed as $M_1M_2/D_1D_2/Y_1Y_2Y_3Y_4$ has a special property: $Y_1Y_2Y_3Y_4 = 2^{(M_1+M_2+D_1+D_2)}$.
11. Tom's 153rd birthday expressed as $M_1M_2/D_1D_2/Y_1Y_2Y_3Y_4$ will also be special: $Y_1Y_2Y_3Y_4 = M_1M_2D_1D_2 + D_2D_1M_2M_1$. Moreover, count the number of days left in the year after Tom's birthday.
12. Tom's 189th birthday will be a seven-digit palindrome date.
13. Lastly, Tom's 508th birthday contains every whole number from 0 to 7, each appearing once.

I hope you enjoy your retirement Tom!

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