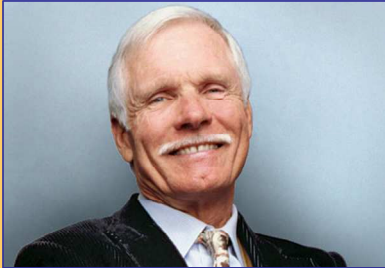


Ted Turner's 75th birthday is Numerically Special

(Aziz S. Inan, Ph.D., Professor, Electrical Engineering, University of Portland, Portland, Oregon)
(November 18, 2013)

November 19, 2013

*H
a
p
p
y
75th*



*B
i
r
t
h
d
a
y
!*

$2013 = 3 \times 11 \times 61$
 $3 + 11 + 61 = 75!$
 $T+E+D = 20 + 5 + 4 = 29$
 $TED = 2054$
 $75 \rightarrow 7^2 + 5^2 = 74 = 20 + 54 = T+ED$
 $11 \times 19 = 205 + 4 = TE+D$
 $1119 = 3 \times 373 = 3 \times (74^{\text{th}} \text{ prime!})$

American media mogul and philanthropist Robert Edward “Ted” Turner III, who founded Cable News Network (CNN) 33 years ago on June 1, 1980 (6-01-1980, or simply 6011980), was born on November 19, 1938 (11191938) and he will turn 75 this Tuesday, November 19, 2013 (11192013) [1]. I have enjoyed watching CNN over the years as one of my reliable and comprehensive news sources, and wanted to take this opportunity to thank Ted for his hard work and vision in founding this great news organization, as well as present him this brainteaser birthday gift that I constructed for him:

1. Ted’s birthday number 75 is secretly coded in 2013. How? Note that the prime factors of 2013 are 3, 11, and 61 (since $3 \times 11 \times 61 = 2013$). What is the sum of these three primes? (Answer: 75!)
2. If Ted’s birth year 1938 is split in the middle as 19 and 38, what is the reverse of the sum of these two numbers? (Answer: 75!) Also, interestingly enough, the sum of the digits of 1938 equals the reverse of the sum of the digits of 75.
3. The full date of Ted’s 75th birthday is 11192013, which equals $3 \times 3 \times 3 \times 3 \times 7 \times 19739$. First, note $3 \times 3 \times 3 \times 3 \times 7 = 567$ and the product of the digits of prime 19739 equals three times 567. Second, 19739 is the 2234th prime number where the sum of the prime factors of 2234 (2 and 1117) add up to Ted’s birth date 1119 (that is, November 19). Wow! Third, the digits of prime 19739 add up to 29, which equals the sum of the numbers assigned to Mr. Turner’s name, “Ted,” based on English alphabet (let letter A be 1, B = 2, C = 3, etc.). Fourth, $3 + 3 + 3 + 3 + 7 = 19$, where number 19 holds a very special place in Ted’s birthday since not only the day number of his birthday is 19 but also the left-half and the right-half of his birth year 1938 are 19 and twice 19 respectively.

4. November 19 (1119) is the 323rd day of 2013 (and also 1938) where 323 is seventeen times 19. Also, 1119 equals three times 373, where 373 is the 74th prime, where $74 = 20 + 54$, where numbers 20, 5 and 4 put side by side correspond to Mr. Turner's name, "Ted"!
5. If 1119 (November 19) is split as 11 and 19, the product of these two numbers yields 209, which can be split as $205 + 4$. Now, remove the plus sign, which leaves back 2054, that is again, "Ted"! Isn't this fun?
6. The numbers assigned to the letters of "Cable News Network" add up to ten times 19.
7. This year, 2013, marks the 33rd anniversary of the foundation of CNN. Interestingly enough, the left-half and the right-half of 2013 (20 and 13) add up to 33. Also, 2013 is divisible by 33. Also, the difference between 2013 and its reverse (3102) equal 33×33 . In addition, the sum of 2013 and 3102 equals 5115 where 51 plus 15 is twice 33. Also, 3102 is twice 1551 where 15 plus 51 is again twice 33. Amazing, isn't it?
8. The digits of Ted's full birthday 11191938 also add up to 33.
9. The product of the digits of 11191938 is $6 \times 324 = 1944$. Interestingly enough, Mr. Turner turned 6 on the 324th day of 1944. What a coincidence!
10. The sum of the numbers assigned to Mr. Turner's first two names (Robert Edward) equals seven times 19. Also, the sum of the numbers assigned to "Robert Turner" equals six times 29.
11. The difference between sum of the numbers assigned to "Ted" and "Turner" equals $96 - 29 = 67$, where 67 is the 19th prime number.
12. Ted founded CNN on 611980 which equal $2 \times 2 \times 5 \times 37 \times 827$ where these prime factors add up to 871, which is thirteen times 67, i.e. the 19th prime number.
13. Numbers 1119 and 1938 (which side by side make Ted's birthday, 11191938) have an interesting connection. 1938 equals 19 times 102. Also, if 1119 is split as 11 and 19, 11 plus the reverse of 19 yield 102. Also, if 1938 is split as 19 and 38, 19 plus the reverse of 38 equals 102. Fascinating!
14. Also, 1119 and 1938 add up to three times 1019, where 1019 is the 171st prime, where 171 is nine times 19.
15. Ted's 76th birthday 11192014 (to occur next year) will also be numerically unique. Why? First, the digits of 11192014 add up to 19. Second, 76 equal four times 19. Third, 2014 is divisible by 19. Fourth, the prime factors of 2014 (2, 19 and 53) add up to 74, where $74 = 20 + 54$, again representing "Ted"!
16. Ted's 116th birthday to occur in 2054 will indeed be special for at least two reasons. First, 2054 splits into the numbers 20, 5 and 4 which put side by side represents Mr. Turner's name, "Ted"! Second, 116 equals four times 29, where again, 29 is the sum of the numbers assigned to the letters of his name, "Ted"!

Happy 75th birthday, Ted Turner!

[1] Ted Turner, Wikipedia

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