

## June 12, 2020 is a special sequential date

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Today's date, expressed as 06/12/20, is a numerically special sequential date. Why?

Because 06/12/20 can be expressed as  $2 \times 3 / 3 \times 4 / 4 \times 5$ . Note that 2 and 3, 3 and 4, and 4 and 5 are sequential natural numbers.

This date is very rare because each century contains only three such calendar dates in the month/day/year date format:

The first one occurred on February 6, 2012 (02/06/12 or  $1 \times 2 / 2 \times 3 / 3 \times 4$ ).

Today's date, 06/12/20, is the second to occur in this century.

After today, the third and the last one will occur about ten years from now on December 20, 2030 expressed as 12/20/30 which can be thought of as  $3 \times 4 / 4 \times 5 / 5 \times 6$ .

Note that such calendar dates expressed in terms of the rightmost two digits of the year number repeat every century.

Further, in 2030, today's date expressed as a full date including all the four digits of the year number as 06/12/2030 will even be a more special such sequential date since this date can be interpreted as  $2 \times 3 / 3 \times 4 / (4 \times 5)(5 \times 6)$ .

I hope this special sequential date serves as a brainteaser story. Additionally, I certainly believe that it has the potential to get the attention of K-12 students interested in STEM education and intrigue their curiosity. Moreover, it will also be a wonderful piece for anyone who has someone in their close circle with a birthday today to discover this unique property of their birthday.

Note: Similar sequential dates to occur in this century are:

February 12, 2030: 02/12/30  $\rightarrow$  1x2/3x4/5x6

June 20, 2042: 06/20/42  $\rightarrow$  2x3/4x5/6x7

December 30, 2056: 12/30/56  $\rightarrow$  3x4/5x6/7x8

June 24, 2060: 06/24/60  $\rightarrow$  1x2x3/2x3x4/3x4x5

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