Flipped Math

Write your questions and thoughts here!

Mental Calendar Part 3 of 3: Century and Year Values

Notes

The mental trick for calculating the day of the week only works for days on or after…

October 15, 1582

Century Values	
1500	
1600	
1700	
1800	
1900	
2000	
2100	
pattern continues	

Month Values	
*January	0
*February	3
March	3
April	6
May	1
June	4
July	6
August	2
September	5
October	0
November	3
December	5

Remainder Values	
0	Sunday
1	Monday
2	Tuesday
3	Wednesday
4	Thursday
5	Friday
6	Saturday

*If the year is a leap year, subtract 1 from Jan and Feb values.

Year Values

Take the last two digits of the year and divide it by four. Truncate the answer (round down). Add this quotient to the original last two digits. This is your year value.

Find the century and year values of the following years.

1. 2016	2. 1910	3. 2059

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Shortcut to Finding the Year Values

Our calendar is on a repeating cycle of 28 years. 2001 has the same calendar as 2029, 1950 has the same calendar as 1978. Calendars repeat every **28, 56, and 84** years! Subtracting multiples of 28 can give us an easier year value to calculate.

4. Let's do the last problem again. The year 2059.

What day of the week did the following dates take place? Try to do it in your head as much as possible, then you can right down the correct way of doing the calculations.

5. March 13, 2020	6. September 11, 2001	7. June 19, 1984

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Practice

For the following dates, calculate the day of the week it occurred. Show the work for your calculations.

1. September 9, 2020	2. January 20, 2009

3. July 13, 2086

4. July 12, 1938

5. April 21, 1703

6. March 23, 2026

7. February 6, 2007

8. January 19, 1899

9. June 12, 1957

10. March 30, 2061

11. July 22, 2005

12. March 29, 2017

13. February 24, 1666

14. December 1, 1701

For the following dates, calculate the day of the week it occurred, but do it all in your head. No work!

15. November 6, 2007

16. February 14, 2028 (leap year!)

17. May 21, 1977

18. October 3, 2025

19. August 7, 2003

20. February 10, 1961

21. September 1, 1999

22. September 9, 2004