

Mental Calendar Part 3 of 3: Century and Year Values

Practice

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

1. September 9, 2020

$$\frac{5 + 9 + 6 + \frac{20}{4} + 20}{7}$$

$$\frac{20 + 5 + 20}{7}$$

$$\frac{45}{7}$$

Remainder: 3

Wednesday

2. January 20, 2009

$$\frac{0 + 20 + 6 + \frac{9}{4} + 9}{7}$$

$$\frac{26 + 2 + 9}{7}$$

$$\frac{37}{7}$$

Remainder: 2

Tuesday

3. July 13, 2086 $2086 - 84 = 2002$

$$\frac{6 + 13 + 6 + \frac{2}{4} + 2}{7}$$

$$\frac{25 + 0 + 2}{7}$$

$$\frac{27}{7}$$

Remainder: 6

Saturday

4. July 12, 1938 $1938 - 28 = 1910$

$$\frac{6 + 12 + 0 + \frac{10}{4} + 10}{7}$$

$$\frac{18 + 2 + 10}{7}$$

$$\frac{30}{7}$$

Remainder: 2

Tuesday

5. April 21, 1703

$$\frac{6 + 0 + 4 + \frac{3}{4} + 3}{7}$$

$$\frac{10 + 0 + 3}{7}$$

$$\frac{13}{7}$$

Remainder: 6

Saturday

6. March 23, 2026

$$\frac{3 + 23 + 6 + \frac{26}{4} + 26}{7}$$

$$\frac{32 + 6 + 26}{7}$$

$$\frac{64}{7}$$

Remainder: 1

Monday

7. February 6, 2007

$$\frac{3 + 6 + 6 + \frac{7}{4} + 7}{7}$$

$$\frac{15 + 1 + 7}{7}$$

$$\frac{23}{7}$$

Remainder: 2

Tuesday

8. January 19, 1899 $1899 - 84 = 1815$

$$\frac{0 + 19 + 2 + \frac{15}{4} + 15}{7}$$

$$\frac{21 + 3 + 15}{7}$$

$$\frac{39}{7}$$

Remainder: 4

Thursday

9. June 12, 1957 $1957 - 56 = 1901$

$$\frac{4 + 12 + 0 + \frac{1}{4} + 1}{7}$$

$$\frac{16 + 0 + 1}{7}$$

$$\frac{17}{7}$$

Remainder: 3

Wednesday

10. March 30, 2061 $2061 - 56 = 2005$

$$\frac{3 + 30 + 6 + \frac{5}{4} + 5}{7}$$

$$\frac{39 + 1 + 5}{7}$$

$$\frac{45}{7}$$

Remainder: 3

Wednesday

11. July 22, 2005

$$\frac{6 + 22 + 6 + \frac{5}{4} + 5}{7}$$

$$\frac{34 + 1 + 5}{7}$$

$$\frac{40}{7}$$

Remainder: 5

Friday

12. March 29, 2017

$$\frac{3 + 29 + 6 + \frac{17}{4} + 17}{7}$$

$$\frac{38 + 4 + 17}{7}$$

$$\frac{59}{7}$$

Remainder: 3

Wednesday

13. February 24, 1666 $1666 - 56 = 1610$

$$\frac{3 + 24 + 6 + \frac{10}{4} + 10}{7}$$

$$\frac{33 + 2 + 10}{7}$$

$$\frac{45}{7}$$

Remainder: 3

Wednesday

14. December 1, 1701

$$\frac{5 + 1 + 4 + \frac{1}{4} + 1}{7}$$

$$\frac{10 + 0 + 1}{7}$$

$$\frac{11}{7}$$

Remainder: 4

Thursday

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

Tuesday

16. February 14, 2028 (leap year!)

Monday

17. May 21, 1977

Saturday

18. October 3, 2025

Friday

19. August 7, 2003

Thursday

20. February 10, 1961

Friday

21. September 1, 1999

Wednesday

22. September 9, 2004

Thursday