
Dates and Calendars - Zeller's Rule Shortcut

Calculate the day of the week for any date. Zeller's Rule can be used to find the day on any particular date in the calendar in the history. All you have to know is the formula given below and how to use it.

Zeller's Rule Formula:

$$F = K + [(13*M - 1)/5] + D + [D/4] + [C/4] - 2C$$

where, K = Date, M = Month, C = The first two digits year and D = Last two digits of the year

* In Zellers rule, months start from March. March = 1, April = 2, May=3 and so on... till Dec = 10, Jan = 11 Feb. = 12

* Also remember that when you have to find day of the first or second month of any year, then Year=Given year-1 i.e., When you want to find Day of 15-2-1990., K=15, Month=12, D=Given Year-1=1990-1=1989=89

Ex: find the day of the 27-08-2014?

Sol: K=27,M=6,C=20 and D=14

Replacing the values in the formula, we get $F = 27 + [\{(13 \times 6) - 1)/5] + 14 + 14/4 + 20/4 - (2 \times 20)$

Therefore, $F = 27 + 77/5 + 14 + 14/4 + 20/4 - 40$

Which gives... $F = 27 + 15.5 + 14 + 3.5 + 5 - 40$

[We have to Consider only the integral value and ignore the value after decimal. So, the equation changes a bit as shown below. We have just removed value after decimal]

$F = 27 + 15 + 14 + 3 + 5 - 40$ Therefore, F = 3. Now that you have a numerical value for the day, divide the number by 7. We need the remainder only. For example, in this case, the remainder is 3.

Now, match the remainder with the chart below:

1 = Monday 2 = Tuesday 3 = Wednesday 4= Thursday5 = Friday 6 = Saturday 7= Sunday

Here, 3 represents Wednesday .

So by Zeller's rule, 27th of August, 2014 was on a Wednesday. So,Today is. wednesday.

This formula will help you a lot in any Calendar question that you may encounter in Quant or DI. Remember that it Is necessary to know the formula properly or else, evena little mistake can render the answer Incorrect.

PS: It Is natural for all of us to consider January as the first month of the
year. However, we request you to please note that March should betreated as first month for using this formula.
With this, you are all set to rock any calendar question that comes in front
f you.
The most important thing in this concept is to remember the formula as an incorrect interpretation can lead to a false answer.
Above zeller rule is applicable to find exact day of given date. if you to find
the day of the given date in a problem where a day Is given on a specified
date. then we have to follow the given below procedure:

Ex: find the day of the 15-08-2024?

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where, K = Date, M = Month, C = The first two digits year and D = Last two
digits of the year

* In Zellers rule, months start from March. March = 1, April = 2, May=3 and
so on... till Dec = 10,
Jan = 11 Feb. = 12

Solution: K=15,M=6,C=20 and D=24

Zeller's Rule Formula:

$$F= K+ [(13*M - 1)/5] + D + [D/4] + [C/4] -2C$$

Replacing the values in the formula,
we get $F = 15 + [{(13*6)- 1)/5] + 24 + [24/4] + [20/4]-(2*20)$

Therefore, $F = 15 + 77/5 + 24 + 24/4 + 20/4- 40$

Which gives... $F = 15 + 15.4 + 24 + 6 + 5 - 40$

[We have to Consider only the integral value and ignore the value after decimal. So, the equation changes a bit as shown below. We have just removed value after decimal]

F= 15 + 15 + 24 + 6 + 5 − 40 Therefore, F = 4. Now that you have a numerical
value for the day, divide the number by 7. We need the remainder only. For
example, in this case, the remainder is 4.

Now, match the remainder with the chart below:

1 = Monday 2 = Tuesday 3 = Wednesday 4= Thursday 5 = Friday 6 = Saturday 7= Sunday

Here, 4 represents Thursday.

So by Zeller's rule, 15th of August, 2024 was on a Thursday. So,Today is. Thursday.