

In the Western Calendar dates of the year are written in the form

day/month/year

using Arabic numerals:

$D_1D_2/M_1M_2/Y_1Y_2Y_3Y_4$

Some days written in such a way, have no repetition of a digit.

For example **23/05/1967** But not **07/12/1974** is not such a date as **$M_1=Y_1=1$** and **$D_2=Y_3=7$** .

08/03/2022

International Women's Day (IWD) is 8th of March and this year, when written in the western calendar form, has exactly **two** digits repeated **three** times, that is **0** and **2**

Questions for you to try out:

Q: Only going forwards in time: When is the next date that IWD will have exactly **two digits repeated **three** times?**

Q: How many dates in the 21st century (all years from 2001 to 2100 inclusively) have no digits repeated? Why?

Q: How many dates in year 2022 are like IWD having 0 repeated three times and 2 repeated three times and the other digits are distinct with no repetition?

To enter the FMSPW competition: ask your teacher to tweet mentioning @RhGMBC_FMSPW by the 14th March. The first entry will get a special prize and three best written solutions will be awarded an FMSPW prize and will be published on our website.

