

Will this be a prime year?



I'm a pretty corny math teacher. When I was 11, I learned about prime numbers and was kind of pleased that I was in one of my "prime" years. I'm old now but on my birthday each year I still noticed if I'm "in my prime".

So naturally I wondered if January was the start of a really prime year.

I'm sure that I could just "Google" or "Siri" that question, but I wondered how hard it would be to figure this out with just my math skills.

1. Do you think this will take a long time and a lot of calculation? Why or why not?
2. How many numbers will you have to try to divide by?
3. Which divisors can you dismiss quickly? Please explain.
4. Which divisors do you think you will have to try to be sure of your answer? Please explain.

GO!

5. Will 2019 be a prime year?

Extension: When will be the next prime year?

2nd, slightly off topic, extension: When will you next be in your prime?