

Problem of the Week

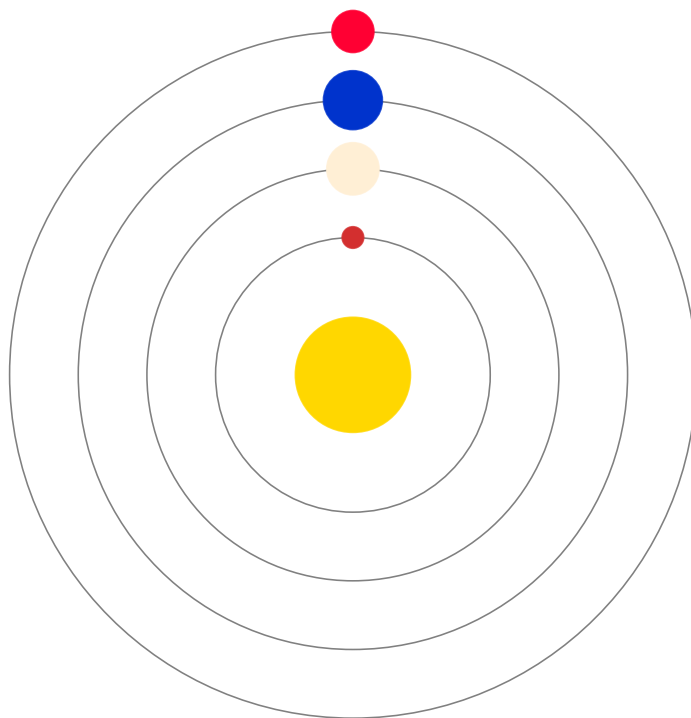
Problem C

Picture Perfect Planets

A distant solar system in the Andromeda Galaxy has a star with 4 orbiting planets, Yrucrem, Sunev, Htrae and Sram. Each of these planets happens to have a different orbital period (the time it takes to travel all the way around the star one time):

- Yrucrem has a 2 year orbital period;
- Sunev has a 6 year orbital period;
- Htrae has a 9 year orbital period; and
- Sram has a 15 year orbital period.

If all 4 planets were aligned in the year of 2018 (as shown below), when will be the next time that all 4 planets have the same alignment?



STRANDS NUMBER SENSE AND NUMERATION, PATTERNING AND ALGEBRA

