

Mathletes Problem of the Week #1

Fun with 2017!



- a) The sum of the digits of 2017 is 10. What is the next year in which this will occur?
- b) The number 2017 requires 4 digits when written in base 10. Does it take 10 digits to write 2017 in base 4?
- c) The number 2017 can be expressed as the difference of the squares of two consecutive whole numbers. What are these two numbers?

Solutions & Explanations: (Solve one or solve them all. Attach more paper if you need to!)

Name _____ **Class** _____

(First and last name, please!)

Solutions due: May 4th