Pi Mu Epsilon
Problem of the Month February 2023

Consider the three numbers *x*=310882, *y*=282164, and *z*=251537.

Find a number, *d*, with *d* between 2 and 20,000, so that the remainder is the same when each of the numbers *x*, *y*, and *z* is divided by *d*.

Example: the number *d*=5 is NOT the answer since the three remainders are 2, 4, and 2 respectively, and the three numbers are not the same.

To get your own copy, please visit:
http://www.longwood.edu/mathematics/