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problems. Paul Halmos  
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Irma ...**

Find four positive integers, each not exceeding 70000 and each having more than 100 divisors. IMO Short List 1986 P10 (NL1) A 108. For each integer  $n > 1$ , let  $p(n)$  denote the largest prime factor of  $n$ . Determine all triples  $(x; y; z)$  of distinct positive integers

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satisfying  $x, y, z$  are in arithmetic progression,  $p(xyz) \equiv 3$ .

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Solution: In algebra we learn about factoring the difference of two squares,  $x^2 - y^2 =$

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$(x-y)(x+y)$ . Using this formula here gives

$$\begin{aligned}3262 - 3252 &= \\(326-325)(326+325) &= \\= (1)(651) &= 651. \text{ This is divisible by 3}\end{aligned}$$

because  $6+5+1 = 12$ .

• Is 65,314,638,792 divisible by 24?

Solution:  $6+5+3+1+4+6+3+8+7+9+2 = 54$  and 54 is divisible by 3 because  $5 + 4 = 9$ .

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Number theory (or arithmetic or higher arithmetic in older usage) is a branch of pure mathematics devoted primarily to the study of the integers and integer-valued functions. German mathematician Carl Friedrich Gauss (1777–1855) said, "Mathematics is the

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### Number Theory

queen of the sciences—and number theory is the queen of mathematics." Number theorists study prime numbers as well as the properties of ...

### **Number theory - Wikipedia**

Let  $e = (p-1)d$ . We have  $x^p - 1 = (x^d)^e - 1 = (x^d - 1)((x^d)^{e-1} + (x^d)^{e-2} + \dots + 1) = (x^d - 1)g(x)$ ; where  $g \in \mathbb{Z}[x]$  and  $\deg(g) = e - d = p - 1 - d$ . Theorem 2.1.20 implies

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that  $x^p - 1$  has exactly  $p - 1$  roots in  $\mathbb{Z}/p\mathbb{Z}$ , since every nonzero element of  $\mathbb{Z}/p\mathbb{Z}$  is a root! By Proposition 2.5.3,  $g$  has at most  $p - 1$  roots and  $x^{d-1} - 1$  has at most  $d - 1$  roots.

## **Elementary Number Theory: Primes, Congruences, and Secrets**

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Please see if my  
solution is correct.  
[USAMO 2003] Prove  
that for every positive  
integer  $n$  there exists  
an  $n$ -digit number  
divisible by  $5^n$  all  
of whose digits are

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odd. MY SOLUTION: So first thing, i checked some small cases and figured we could generate the number with  $(n+1)$  digits satisfying the property by adding a number to it's front, ie ...

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