

Problem of the Week

09/07/2009 to 09/18/2009

How many positive integers n are there such that n is an exact divisor of at least one of the following numbers:

$$10^{40}, 20^{30}?$$

Solutions for this problem can be submitted to Dr. Brian Miceli at bmiceli@trinity.edu, or you can drop them off at his office, MMS 115F. People with correct solutions will be acknowledged once the solution to this problem has been posted. If you like these problems, you may be interested in the Putnam Exam. More information on the Putnam Exam can also be found at www.trinity.edu/bmiceli.