

HOMEWORK

Factorization (Division M)

Name: _____ 02/28/2010

1. The product of three consecutive even numbers is $***8$ (a 4-digit number), find out the three numbers.

2. Factorize the following numbers:
(a) 4123 (b) 427091

3. Which of the following numbers are primes?
(a) $2 + 1$ (b) $2 \times 3 + 1$ (c) $2 \times 3 \times 5 + 1$ (d) $2 \times 3 \times 5 \times 7 + 1$

4. Could the following numbers be a prime?
 $2 \times 3 \times 5 \times 7 \times 9 \times 11 + 11 \times 13 \times 17 \times 19 \times 23$?

5. Verify any even number less 100 and greater than 4 can be written as a sum of two primes.