

Mathematics and Associated
Teaching Methods I

**DIVISIBILITY
OF THE NATURAL NUMBERS**

Degree in Primary Education Teaching

Multiples and divisors

- Definition
- Equivalence between both concepts
- To find the multiples and divisors of a number
- Properties

Divisibility criteria

- By 2
- By 3
- By 4
- By 5
- By 6
- By 9
- By 10
- By 11
- ...

Prime and composite numbers

- Definition
- Quantity of prime numbers
- To find out if a number is prime
- Eratosthens sieve
- Decomposition in prime factors

Greatest common divisor

- Definition
- Computation of the g.c.d.:
 - By definition
 - Algorithm by decomposition in prime factors
 - Euclides' algorithm
- Co-prime numbers

Least common multiple

- Definition
- Computation of the l.c.m.:
 - By definition
 - Algorithm by decomposition in prime factors

Theorem

The product of two natural numbers
is the product of their
g.c.d. and their l.c.m.