

NATURAL PRODUCTS

Why

TODO

Definition

Let m and n naturals. If we add n copies of m we obtain a number. If we add m copies of n we obtain a number. Indeed, we obtain the same number in both cases. We call this number the **Definition 1** (). productproduct of m and n. We say we **Definition 2** (). multiplymultiply m to n, or vice versa. We call this symmetric operation mapping (m, n) to their product **Definition 3** (). multiplicationmultiplication.

Notation

We denote the operation of multiplication by \cdot and so denote the product of the naturals m and n by $m \cdot n$.

