



Natural Products

1 Why

TODO

2 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 **product** of m and n . We say we **multiply** m to n , or vice versa. We call this symmetric operation mapping (m, n) to their product **multiplication**.

2.1 Notation

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