



## Definition

Given a number  $n \in \mathbf{N}$ , a *factorization*  $\pi = (\pi_1, \dots, \pi_p)$  of  $n$  is a list of numbers (in  $\mathbf{N}$ ) satisfying

$$n = \pi_1 \pi_2 \cdots \pi_p$$

We say that the factorization  $\pi$  *factors*  $n$  and we call  $\pi_i$  a *factor*, and refer to  $\{\pi_i\}$  as the *factors*.



