



## NATURAL INTEGER ISOMORPHISM

### Why

Do the natural numbers correspond (in the sense **Isomorphisms**) to elements of integers.

### Main Result

Indeed, the natural numbers correspond to the  $Z_+$ .

**Proposition 1.**  $(\mathbf{Z}_{++}, + \mid \mathbf{Z}_{++})$  and  $(\omega, +)$  are isomorphic.

*Proof.* The function is  $f(n) = [(n, 0)]$ .<sup>1</sup> □

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<sup>1</sup>The full account will appear in future editions.



