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In mathematics, a contraction mapping, or contraction or contractor, on a metric space  $(M,d)$  is a function  $f$  from  $M$  to itself, with the property that there is some nonnegative real number  $\alpha < 1$  such that for all  $x$  and  $y$  in  $M$ ,  $d(f(x), f(y)) \leq \alpha d(x, y)$ . The smallest such value of  $k$  is called the Lipschitz constant of  $f$ . Contractive maps are sometimes called Lipschitzian maps.

**Contraction mapping - Wikipedia**

Written mathematics began with numbers expressed as tally marks, with each tally representing a single unit. The numerical symbols consisted probably of strokes or notches cut in wood or stone, and intelligible alike to all nations.

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