The Journal of Chinese Linguistics vol.45, no.1 (January 2017): 20-67 ©2017 by The Journal of Chinese Linguistics. All rights reserved. 0091-3723/2017/4501-02: Fractions in the Suàn Shù Shū

FRACTIONS IN THE SUÀN SHÙ SHŪ (CHINA, BEGINNING OF THE 2ND CENTURY BCE) Rémi Anicotte *CRLAO, Paris*

ABSTRACT

The Suàn Shù Shū contains 301 instances of regular expressions for fractions. They can be "mono-dimensional" (formed with one integer name only) for unit fractions, "bidimensional" (with two integer names) for both unit and non-unit fractions, or tracalized only for 1/3, 1/2 and 2/3. The present paper gives a complete description of the diversity of these forms. Bidimensional expressions are predicative phrases: the name n f en of a unit fraction 1/n acts as subject and the numerator's name as predicate; according to the sontactic context, the morpheme $zh\bar{i}$ can be used as an optional mark, of this predicative relation.

KEYWORDS

Chinese historical syntax Fractions Numerical expressions Separable semantic units Measure words *Suàn Shù Shū*

The author declares no conflicts of interest.

Abbreviations DECL: declarative; MW: measure word; NMLZ: nominalizer; Num: numeral; OBJ: object of transitive verb; RECP: reciprocal; 3OBJ: third person object pronoun; 3SBJ: third person subject pronoun; [*n*] (with a number *n* written in Arabic numerals): the monomorphemic expression of the number *n* in a given language; A(B) and A(BC): the character A is a rendition of the original character encountered in the Chinese corpus, the character B or the sequence BC in parenthesis is a modern form of what is understood for A. For example: $\hat{\pi}(\mathbb{Z})$, #(=+), #(=+), #(=+), #(=+), $\hat{\pi}(\mathbb{Z})$.

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而汉出土文献《算数书》分数表达

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摘要

西汉出土文献《算数书》中表达分数的短语有 301 例。本文全面描述该 书中的那些短语。在文中,我把它们定义为"一维短语(即包括唯 个整数名)"和"二维短语(即包括两个整数名)",前者表达单位分 数,后者表达单位和非单位分数,除此之外还有三个词汇化的短语专门 用于表达 1/3、1/2 和 2/3。在二维短语中,单位分数 1/n 作为短语的 主语表达分母,而表达分子的那个数名作为短语处谓语,根据语境, THAT "之"字可作为短语标志放在主谓语之间。

关键词

中文语法历史 分数 表数短语 离合词组 量词 《簋数书》 又大學出版社

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