



## **Ethnomathematics: A mathematical exploration on the layout of *tui gubuk* and the architecture of Segenter Traditional House**

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**ABSTRACT:** Mathematics is found in many activities of traditional culture. However, many perceive that mathematics is culture-free. Based on the occurring phenomenon, ethnomathematics study is made as the connector between mathematics and culture. The presence of ethnomathematics provides many opportunities to discover unique mathematical ideas exist in the traditional culture. This research aims to explore mathematical ideas in the layout of *tui gubuk* and the architecture of Segenter traditional house that can be made as mathematics learning sources. This study was a qualitative research with ethnographic method. This study was conducted in the traditional village of Segenter, Sukadana Village, Bayan District. Data were collected through an observation and interviews with Adat figures, cultural anthropologists, and traditional leaders who have the knowledge of the customs and culture of Bayan people, which consisted of three informants. Research results indicate that there are mathematical ideas in the layout of *tui gubuk* and the architecture of Segenter traditional house that can be made as the learning sources of mathematics and can be developed in mathematics learning, especially in materials of set and geometry, both geometry of space and flat geometry.

**Keywords:** Mathematical ideas; *Tui gubuk* layout; Traditional house; House architecture

### **Etnomatematika: Eksplorasi matematika pada tata ruang *tui gubuk* dan arsitektur rumah adat Segenter**

**ABSTRAK:** Matematika ditemukan dalam aktivitas budaya tradisi. Namun banyak yang menganggap bahwa matematika bebas budaya. Berdasarkan fenomena yang terjadi, maka kajian etnomatematika dijadikan sebagai penghubung antara matematika dan budaya. Kehadiran etnomatematika memberikan banyak peluang untuk mengkaji ide-ide matematika yang terdapat dalam budaya tradisi yang bersifat unik. Tujuan dari penelitian ini adalah mengeksplorasi ide-ide matematika pada tata ruang *tui gubuk* dan arsitektur rumah adat Segenter yang dapat dijadikan sumber belajar matematika. Penelitian ini merupakan penelitian kualitatif dengan metode etnografi. Penelitian dilakukan di perkampungan tradisional Segenter Desa Sukadana Kecamatan Bayan. Pengumpulan data dilakukan dengan cara observasi dan wawancara dengan tokoh-tokoh adat, budayawan serta penghulu adat yang memahami adat istiadat dan budaya masyarakat Bayan yang terdiri dari 3 orang informan. Hasil penelitian menunjukkan bahwa terdapat ide-ide matematika yang terdapat pada tata ruang *tui gubuk* dan arsitektur rumah adat Segenter yang dapat dijadikan sebagai sumber belajar matematika dan dapat dikembangkan dalam pembelajaran matematika terutama pada materi himpunan dan materi geometri baik geometri datar dan geometri ruang.

**Kata kunci :** Ide-ide matematika; Tata Ruang *Tui Gubuk*; Rumah tradisional; Arsitektur rumah

# Mathematical Exploration Of The Environment

**Jessica J Manson**



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Mathematical Exploration of the Environment István Bán,1995 One of the most important tasks of mathematics is to describe or approximate the phenomena of nature as exactly as possible and to provide a useful tool in the exploration of nature For a deeper understanding of natural phenomena we need a systematized definition of the most important mathematical notions and statements In this book a new concept of the structure of the environment is introduced The environment has a porous structure This concept applies sets of state characteristic values The book provides a mathematical method which can process a very high number and different kinds of state characteristic values surveys the complex correlations and explains the structure and the local and global properties of the environment by means of a novel mathematical interpretation

**Early Mathematical Explorations** Nicola Yelland,Deborah Butler,Carmel Diezmann,2014-01-20 This book presents teachers with a sound theoretical framework for encouraging children to explore mathematical concepts and become numerate in the 21st century It shows that mathematical learning can occur in a variety of ways including when children explore ideas through play problem solving and problem posing engage in a rich variety of multimodal learning experiences pursue self directed activities and cooperate with others and make connections between ideas and experiences in their everyday worlds Back cover

*The Language of Mathematics* Bill Barton,2007-12-24 The book emerges from several contemporary concerns in mathematics language and mathematics education However the book takes a different stance with respect to language by combining discussion of linguistics and mathematics using examples from each to illustrate the other The picture that emerges is of a subject that is much more contingent much more relative much more subject to human experience than is usually accepted Another way of expressing this is that the thesis of the book takes the idea of mathematics as a human creation and using the evidence from language comes to more radical conclusions than most writers allow

*The Effective Teaching of Mathematics* Malcolm Simmons,2014-09-11 First published in 1993

This series has been written for trainee teachers wishing to improve their teaching skills as well as for in service teachers especially those engaged in the supervision of trainees The book provides an overview of mathematics teaching at secondary level and links established mathematics content to recent curriculum developments in mathematics teaching in England and Wales and in Scotland The main purpose of the book is to instigate and complement good mathematics teaching practice in our classrooms

Teaching And Learning Early Number Thompson, Ian,2008-10-01 For all trainee and practising early years teachers and classroom assistants this is an accessible guide to a wide range of research evidence about the teaching and learning of early number

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