


# MATHS CHALLENGES

## UPPER PRIMARY EXTENSION

### Hexagon Head Scratcher




This is a logic puzzle where you need to place the numbers 1 to 9 in a special hexagon shape. It is similar to a Sudoku puzzle but much harder!

The goal is to make sure that each row, column and diagonal adds up to the same total.

You are going to use all the numbers 1 to 9 (1+2+3+...+9=45). There are 6 rows, which means the total needs to be  $45 \div 6 = 7.5$  (7 and a half).


Each line must equal 20.



**YOUR TASK**  
Cut the numbers out below and place them in the hexagon with numbers 1 to 9. Each sentence must equal your target answer.


1	2	3	4
11	12	13	14

### Fraction Pharaohs



The ancient Egyptians only used unit fractions (fractions with 1 as the numerator), and they would write other fractions as sums of different unit fractions. For example, they wouldn't write  $\frac{2}{3}$  but they would write  $\frac{1}{2} + \frac{1}{6}$ .

This style of writing can sometimes be elegant and clever — but it's not always simple! These Egyptian fractions show  $\frac{2}{3}$  as  $\frac{1}{2} + \frac{1}{6}$ .



In this problem we are going to start by considering how the Egyptians might have written fractions with a numerator of 2 (ie. of the form  $\frac{2}{n}$ ).


For example,  $\frac{2}{3} = \frac{1}{2} + \frac{1}{6}$  (this was not allowed because they are the same. They must be a sum of different unit fractions) instead:

$\frac{2}{3} = \frac{1}{3} + \frac{1}{3}$  OR  $\frac{2}{3} = \frac{1}{4} + \frac{1}{12} + \frac{1}{12}$  OR  $\frac{2}{3} = \frac{1}{5} + \frac{1}{15}$  OR  $\frac{2}{3} = \frac{1}{6} + \frac{1}{6}$

**YOUR TASK**  
Your challenge is to explore other fractions with a numerator of 2. What is the simplest way they can be written? How many can you find that can be written as a sum of only two fractions? Record your findings neatly.

**CHALLENGE**  
Did you find that all fractions with a numerator of 2 could be written as a sum of two different fractions? Did you notice any patterns with which fractions this could/could not be done with?

### Fraction



...taken it upon yourself to solve ... ..

... .. but being a curious experimenter, ... .. making smaller or larger ... ..

... .. for different tasks itself. Or will ... ..

**YOUR TASK**

... ..

... ..

... ..

... ..

... ..

Ingredients	Answer
1st	1/2
2nd	
3rd	
4th	
5th	

## OPEN ENDED PROBLEM SOLVING

# Open Ended Maths Activities Fractions

**Jianjun Gao**



## **Open Ended Maths Activities Fractions:**

*Open-ended Maths Tasks* Helen Macpherson, 1993 A teacher's resource book for junior and middle primary teachers designed for active learning through enjoyable participation Contains over 300 student oriented tasks in number space and measurement which allow for a variety of student abilities Includes an assessment and evaluation section and an index

*Using Rubrics to Assess Open-ended Maths Tasks* Pat Lilburn, Irene Sawczak, 2013 Combining the knowledge of authors Pat Lilburn and Irene Sawczak both with many years experience as teachers this book provides teachers with thirty six open ended number tasks and related rubrics aimed at primary year levels

**Helping Children Learn Mathematics** Robert Reys, Mary Lindquist, Diana V. Lambdin, Nancy L. Smith, Anna Rogers, Audrey Cooke, Sue Bennett, Bronwyn Ewing, John West, 2020-01-21 The third edition of Reys *Helping Children Learn Mathematics* is a practical resource for undergraduate students of primary school teaching Rich in ideas tools and stimulation for lessons during teaching rounds or in the classroom this edition continues to provide a clear understanding of how to navigate the Australian Curriculum with detailed coverage on how to effectively use Information and Communications Technology ICT in the classroom This is a full colour printed textbook with an interactive ebook code included Great self study features include auto graded in situ knowledge check questions video of teachers demonstrating how different maths topics can be taught in the classroom and animated branched chain scenarios are in the e text

**Helping Children Learn Mathematics, 5th Australian Edition** Robert Reys, Mary Lindquist, Diana V. Lambdin, Nancy L. Smith, Anna Rogers, Leicha Bragg, Audrey Cooke, Melissa Fanshawe, Mark Gronow, 2025-10-10 *Year 5* Stefanie Sullivan, 2003 Talking Maths provides motivating and differentiated group activities to get children working together to solve problems Pupils will develop their reasoning skills and their maths vocabulary as they talk about maths strategies

Primary Mathematics and the Developing Professional Alison Millett, Margaret Brown, Mike Askew, 2007-07-11 Abstract This introduction sets the scene for the remainder of the book by considering first the international context of widespread concern about the improvement of numeracy skills This is related to reform movements in the United Kingdom the United States and other countries aimed at modernising primary elementary school mathematics curricula A detailed account is given of the National Numeracy Strategy in England a systemic government imposed response to concern about standards implemented in 1999 2000 This includes a discussion of the alternative meanings of numeracy An earlier initiative sponsored by a United Kingdom charitable trust reacting to concern about primary numeracy was the Leverhulme Numeracy Research Programme This large scale longitudinal study and linked set of case study projects focusing on reasons for low attainment took place during 1997 2002 This book and each other in the same series is based on results of that research The timescale fortuitously enabled the research team to also report on some effects of the systemic reform in the National Numeracy Strategy 1 THE INTERNATIONAL CONTEXT In many countries there are recurring periods of national concern about the low standards of calculation skills shown by children in primary

elementary schools Recently these concerns have become more urgent and more political with the publication of international comparisons of mathematical achievement first at secondary and more recently at primary level e g Lapointe Mead Mullis et al 1997 Excel a Parent's Guide to Primary English and Mathematics, Years K-6 Ages 4-12 Merryn Whitfield,2003 *Fractions and Decimals* Sally Abbey,Lynne Pointer,1995 Designed to offer non specialist teachers a wide range of open ended photocopiable activities for specified levels of ability this book is part of the Essentials series This book on fractions and decimals contains games open ended investigations puzzles and real life problems **Teaching Children Mathematics** ,1997 *The Software Encyclopedia* ,1988 *Teaching Secondary School Mathematics* Marilyn Goos,Colleen Vale,Gloria Stillman,Katie Makar,Sandra Herbert,Vince Geiger,2020-07-16 Since its first publication Teaching Secondary School Mathematics has established itself as one of the most respected and popular texts for both pre service and in service teachers This new edition has been fully revised and updated to reflect the major changes brought about by the introduction of the Australian Curriculum Mathematics as well as discussing significant research findings the evolution of digital teaching and learning technologies and the implications of changes in education policies and practices The mathematical proficiencies that now underpin the Australian curriculum understanding fluency problem solving and reasoning are covered in depth in Part 1 and a new section is devoted to the concept of numeracy The chapter on digital tools and resources has been significantly expanded to reflect the growing use of these technologies in the classroom while the importance of assessment is recognised with new material on assessment for learning and as learning along with a consideration of policy development in this area Important research findings on common student misconceptions and new and effective approaches for teaching key mathematical skills are covered in detail As per the first edition readers will find a practical guide to pedagogical approaches and the planning and enactment of lessons together with enhanced chapters on teaching effectively for diversity managing issues of inequality and developing effective relationships with parents and the community This book is the essential pedagogical tool for every emerging teacher of secondary school mathematics The text offers an excellent resource for all of those involved in the preparation of secondary mathematics teachers with links to research literature exemplars of classroom practices and instructional activities that encourage readers to actively examine and critique practices within their own educational settings Professor Glenda Anthony Institute of Education Massey University A rich and engaging textbook that covers all of the important aspects of learning to become an effective secondary mathematics teacher The second edition of this text is further enhanced with updated references to the Australian Curriculum NAPLAN STEM current Indigenous social justice and gender inequity issues and the place of Australian mathematics curricula on the world stage Dr Christine Ormond Senior Lecturer Edith Cowan University First Fractions Rose Griffiths,1993-01 This is part of the Essentials series of photocopiable books designed to offer the non specialist teacher a wide range of open ended science activities for specified levels of ability This book looks at fractions *Computer Assisted*

*Learning* Peter R. Smith, 1981 Provides an important international forum for those interested in the theory and practice of computer assisted learning in education and training The papers are grouped under 4 main themes hardware interaction with CAL fundamental aspects of CAL experimental studies in CAL and developments and future directions     **Let's Talk Math** Pat Lilburn, Pam Rawson, 1994 Grade level 1 2 3 4 5 6 p e i t     **The Complete Sourcebook on Children's Software** Children's Software Review, 2001-03 5000 critical reviews of CDs videogames smart toys for ages 1 to 16     Current Index to Journals in Education , 2001     Boletin Internacional de Bibliografia Sobre Educacion , 1992     **Symposium** , 1965

**The British National Film Catalogue** , 1983     *Visual Education* , 1979 Beginning with 195 one monthly issue called Visual aids yearbook

## The Enigmatic Realm of **Open Ended Maths Activities Fractions**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Open Ended Maths Activities Fractions** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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