

Fractions

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multiplication and division

- ① check for common factor
- ② factorise
- ③ cross cancel

Cross cancelling: $\cancel{3} \times \frac{4}{\cancel{3}} = 1$

examples: $\frac{9x^2 - 4}{3x^2 - 4x^2 - 4x} \div \frac{2x + 3}{2x^2 - x - 6}$

$$= \frac{(3x+2)(3x-2)}{x(3x+2)(x-2)} \times \frac{(2x+3)(x-2)}{(2x+3)}$$

$$= \frac{3x-2}{x}$$

can't factorise $\rightarrow$
see if it matches w/ binomial

$$\frac{x^3 - 8}{4x^2 - x^3} \times \frac{x^2 + 3x^2}{x^2 + 2x + 4}$$

$$= \frac{(x-2)(x^2 + 2x + 4)}{x^2(2-x)(2+x)} \times \frac{x^2(x+3)}{(x^2 + 2x + 4)}$$

$$= \frac{(x-2)}{-(x-2)(x+2)} \times \frac{(x+3)}{1}$$

$$= -\frac{x+3}{x+2}$$

Note: Only $\cancel{\Delta}$ if there is one term on top and one term on bottom

addition and subtraction

- ① factorise denominators
- ② find lowest common denominator
- ③ multiply numerators by LCD

LCD: $\frac{3}{a+2} - \frac{4}{a-3} = \frac{3}{(a+2)} - \frac{4}{(a-3)}$

$$\therefore \text{LCD} = (a+2)(a-3)$$

examples: $\frac{x-1}{x+2} - \frac{2x+1}{x}$ LCD = $x(x+2)$

$$= \frac{x(x-1) - (2x+1)(x+2)}{x(x+2)}$$

$$= \frac{x^2 - x - (2x^2 + 5x + 2)}{x(x+2)}$$

$$= -\frac{x^2 - 6x - 2}{x(x+2)}$$

$\frac{3}{4x^2 - 12x + 9} + \frac{2x}{4x^2 - 9}$

$$= \frac{3}{(2x-3)(2x-3)} + \frac{2x}{(2x+3)(2x-3)}$$

$$= \frac{3(2x+3) + 2x(2x-3)}{(2x+3)(2x-3)^2}$$

LCD = $(2x+3)(2x-3)^2$

$$= \frac{4x^2 + 9}{(2x+3)(2x-3)^2}$$

Maths Teacher Notes

Yi-Tong Ma

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Maths Teacher Notes:

Heinemann Maths 6 Teacher's Notes Spmg,1998-03-10 The Heinemann Mathematics scheme has been developed by the authors of the primary course SPMG with the aim of building on established strengths to provide a structured development of children s mathematical knowledge and skills within the revised curricula **Heinemann Maths P7 Teacher's Notes**

Scottish Primary Maths Group Spmg,1998 The Heinemann Mathematics scheme has been developed by the authors of the primary course SPMG with the aim of building on established strengths to provide a structured development of children s mathematical knowledge and skills within the revised curricula **Heinemann Maths 5 Teacher's Notes** ,1998-01-12 The

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four page issue of the NCTM Student Math Notes a periodical stated in 1982 has been reproduced in full with 2 to 4 pages of teacher notes detailed solutions suggested extensions and additional worksheets The primary student audience is in Grades 5

10 **Maths Toolbox Year 5 Teachers Notes** Pearson Education,2002-06-30 Maths Toolbox is a package that provides maths resources and linked pupil activities in a flexible format For each of years 1 to 6 it includes a complete set of interactive tools and these notes accompany year 5 s package **Time for Maths** ,1980 **Primary Maths Teacher**

Resource Book 4 Greg Weeks,2011-11-04 Active Maths Teacher Resource 4 contains the teaching framework It describes a range of classroom activities and practice provides additional worksheets and is cross referenced to the student activity pages the Quality Teaching Framework and relevant cards in the Maths in a Box series **Primary Maths Teacher**

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Active Maths Teacher Resource 6 contains the teaching framework It describes a range of classroom activities and practice provides additional worksheets and is cross referenced to the student activity pages the Quality Teaching Framework and relevant cards in the Maths in a Box series

The book delves into Maths Teacher Notes. Maths Teacher Notes is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Maths Teacher Notes, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Maths Teacher Notes
- Chapter 2: Essential Elements of Maths Teacher Notes
- Chapter 3: Maths Teacher Notes in Everyday Life
- Chapter 4: Maths Teacher Notes in Specific Contexts
- Chapter 5: Conclusion

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6. In chapter 5, this book will draw a conclusion about Maths Teacher Notes. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Maths Teacher Notes.

https://staging.conocer.cide.edu/files/scholarship/Documents/fury_rachel_monett.pdf

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