

# Fractions

DATE 16 May 2021

## 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

$$\frac{x^3 - 8}{4x^2 - x^9} \times \frac{x^2 + 3x^2}{x^2 + 2x + 4}$$

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

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

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

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

**Dianne Carr**



## 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      **Teaching with Student Math Notes** Evan M.

Maletsky,National Council of Teachers of Mathematics,1987 Each 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

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conjunction with Keele University and piloted in schools as part of a major research project this CD ROM and accompanying Teacher Support Pack enables you to make use of interactive whiteboard technology      **Primary Maths Teacher**

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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 Resource Book 6 Dianne Carr,2011-09-30 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

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Primary Maths Teacher Resource Book 2 Michelle Weeks,Natasha Gillard,2012-01-17 Active Maths Teacher Resource 2 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     **Handbook Of Mathematical Science Communication** Anna Maria Hartkopf,Erin Henning,2022-12-28

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travel around the country meeting with lairds and other officials mary loved horse riding dancing and hunting game she also enjoyed sport and would play real tennis when at falkland palace

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web in scotland france and england mary was a contemporary of some of the most influential personalities of the renaissance era along with catherine de medici mary tudor and elizabeth i mary was one of a small group of women renaissance queens who in an era still largely dominated by men wielded considerable power

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