

13 Addition and subtraction with decimals, 14 Percentages, 15 Multiplication or division of decimals by whole numbers, 16 Multiplication of decimals by decimals, 17 Division of any number by decimal fractions, 18 Basic fractions and ratios, 19 Improper fractions and mixed numbers, 20 Fractions of amounts, 23 Equal (equivalent) fractions, 24 Fractions and decimals, 25 Fractions, division and remainders, 26 Addition or subtraction of fractions and mixed numbers,

Interactive learning for concepts and skills (MAV) *Demo on whiteboard or student use*

Decimals: Skip count decimals, Spending money, Subtracting money,

Fractions: Fractions of an amount, Rod fractions, Mixed numbers, Improper fractions, Skip count fractions, Missing fractions,

Guidelines in Number (MAV) *Hands-on teaching ideas*

Fractions: p37-39, 59-61

Fractions: pikelets and lamingtons (MAV)

Active Learning: Number and Algebra (MAV) *Worksheets*

F1 Fraction circles, **F2** Fractions of things, **F3** Fraction rally: a fraction dice game

<http://illuminations.nctm.org/Activities.aspx> *Free software from the internet*
Equivalent fractions,

<http://nlvm.usu.edu/en/nav/vlibrary.html> *National Library of Virtual Manipulatives Free software from the internet*

The Learning Federation www.thelearningfederation.edu.au/tlf2/ *Free software from the internet*

Fraction fiddle, Design briefs, Cassowary fractions, Dynamic tools

- **Mathematical problem-solving**

Problem Solving Task Centre (CC) *Rich tasks for students*

201 Rectangle Fractions, 202 Rod Mats, 203 Make The Whole, 211 Soft Drink Crates, 218 Guessing Colours Game

- **Real problem-solving**

STANDARD 4

a Place value: millions to thousandths

- **Toolbox: concepts and skills**

Guidelines in Number (MAV) *Hands-on teaching ideas*

Counting: p73-75, 103-104, Place value: p79-82, 108-111. Counting: p147-148, Pattern: 149-152, Place value: p153-156.

People Count: text and/or CD (MAV) *Text for teachers, with spreadsheets for students.*

9 Multiplication and division by powers of 10,

Interactive learning for concepts and skills (MAV) *Demo on whiteboard or student use*

Estimating decimals, Ordering decimals, Reading a scale, Powers of 10(x), Powers of 10 (÷),

The Learning Federation www.thelearningfederation.edu.au/tlf2/ *Free software from the internet*

Decimaster, Wishball

standards.nctm.org/document/examples/index.htm *Free software from the internet* 6.1 Learning about Multiplication
Using Dynamic Sketches of an Area Model

<http://illuminations.nctm.org/Activities.aspx> *Free software from the internet*
Factor game, Factorize,

<http://nlvm.usu.edu/en/nav/vlibrary.html> *National Library of Virtual Manipulatives Free software from the internet*

- **Mathematical problem-solving**

RIME 5/6 (MAV) *Lesson plans*

Million

Problem Solving Task Centre (CC) *Rich tasks for students*

98 Martian Maths

- **Real problem-solving**

b Whole number computation and inverse operations

- **Toolbox: concepts and skills**

Guidelines in Number (MAV) *Hands-on teaching ideas*

Operations: p85-99, 123-142, Problem solving: p100-102, 143-146