**Transition: Advanced Counting to Early Additive Domain: Ratios and Proportions**

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| **Achievement Objectives** | **Number: Level Two** |
| Number Strategies AO1:  Use simple additive strategies with whole numbers and fractions.  Number Knowledge AO4:  Know simple fractions in everyday use. |

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| **Strategies being developed** | **Problem progression** | **References** | **Knowledge being developed** | **Resources** |
| Find a unit fraction of a set using addition facts, particularly doubles,  e.g. 1/4 of 16 is 4 using 1/2 of 16 is 8. | 1/2 of 18 = 🞏  1/4 of 12 = 🞏  1/4 of 20 = 🞏  1/8 of 24 = 🞏  1/3 of 15 = 🞏  1/5 of 25 = 🞏 | ***Teaching Fractions, Decimals and Percentages (Book 7)***  Introduction (4-10,15)  [Animals](https://nzmaths.co.nz/node/921) (18-20)  [Hungry Birds](https://nzmaths.co.nz/node/920) (22-24)  ***BSM***  12-3-49, 12-3-50  ***Figure It Out***  N 2.1 [Flipping Fractions](https://nzmaths.co.nz/node/3069) (17)  N.2.1 [Dazzler Digs On](https://nzmaths.co.nz/node/3072) (19)  N2.1 [Cooking Up a Storm](https://nzmaths.co.nz/node/3073) (20)  N2.2 [Tummyache](https://nzmaths.co.nz/node/3094) (20)  N2.2 [Finding Fractions](https://nzmaths.co.nz/node/3097) (24)  N2-3 [Flitting with Fractions](https://nzmaths.co.nz/node/3134) (21) | Identify the symbols for halves, quarters, thirds, fifths, and tenths including fractions greater than 1. | ***Teaching Number Knowledge (Book 4)***  [Fraction Pieces](https://nzmaths.co.nz/node/1044) (6)  [Creating Fractions](https://nzmaths.co.nz/node/1045) (6)  [More Geoboard Fractions](https://nzmaths.co.nz/node/1046) (7)  [Non-Unit Fractions](https://nzmaths.co.nz/node/1047) (7)  ***BSM***  12-3-51, 12-3-83  12-3-84  ***Figure It Out***  N2.1 [Puzzling Shapes](https://nzmaths.co.nz/node/3074) (21) |

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| **Strategies being developed** | **Problem progression** | **References** | **Knowledge being developed** | **Resources** |
| Find unit fractions of a continuous region, like a length or area, using halving. | Find:  One half of a length or area, e.g. circle, length rectangle, One quarter, One eighth.  One third, one fifth of a rectangle or length | ***Teaching Fractions, Decimals and Percentages (Book 7)***  [Wafers](https://nzmaths.co.nz/node/952) (16-18)  ***Figure It Out***  N2.1 (21) [Puzzling Shapes](https://nzmaths.co.nz/node/3074)  N2-3 (17) [Circle Segment](https://nzmaths.co.nz/node/3126)  N2-3 (18) [Fabulous Folding](https://nzmaths.co.nz/node/3127)  N2-3 (19) [Getting in Shape](https://nzmaths.co.nz/node/3132) | Order fractions with like denominators, e.g. 1/4. and 2/4.. | ***Teaching Number Knowledge (Book 4)***  [Fraction Pieces](https://nzmaths.co.nz/node/1044) (6) |
| Order unit fractions and fractions with the same denominator and explain why they are larger or smaller | Which is bigger? Why?  or , or , or ,  or , or , or .  or , or , or . | ***Teaching Fractions, Decimals and Percentages (Book 7)***  [Fraction Circles](https://nzmaths.co.nz/node/927) (20-22) |  |  |
| Order fractions visually using materials, including improper fractions like 5/3 and 7/4, and explain what the numerator and denominator mean. | Make each pair of fractions. Which is bigger?  or , or , or ,  or , or , or . | ***Teaching Fractions, Decimals and Percentages (Book 7)***  [Fraction Circles](https://nzmaths.co.nz/node/927) (20-22) |  |  |