

**Proportions and Ratios – Level One – Fractions**

<b>New Zealand Curriculum</b>		
<b>Number Strategies:</b> Use a range of counting, grouping, and equal-sharing strategies with fractions.		
<b>Number Knowledge:</b> Know the forward and backward counting sequences of whole numbers to 100.		
<b>After one year</b>	<b>After two years</b> use equal sharing and symmetry to find fractions of sets, shapes and quantities	
<b>Big Ideas</b>		
Students must come to know the language of fractions. (Particularly for irregular fraction words – half, quarter, third, fifth), with the emphasis initially on the use of fraction words (written) before the symbol is introduced.		
Find fractions of continuous (shapes and lengths) and discrete (numbers) sets		
Begin with emphasis on fractions unit (one half/quarter), then it is important to introduce the idea of non-unit fractions when learning opportunities arise.		
Students need to be given opportunities to find both a part of a whole and the whole given a part		
Students must read fractions as one quarter not one out of four – the top number is the count and the bottom number as the size of the units.		
Students must understand that fractional parts are equal shares or equal- sized portions of a whole.		
<b>Question</b>	<b>Possible Answers</b>	<b>Understanding/Misconception</b>
Start with a bag of cubes: Give one-half of these lollies to Maia and the other half to Hemi.		
Find half of this shape		
Draw two pictures of one quarter		
<b>Appropriate Activities for this level:</b>		