



## Food for Thought: Do primary school students eat nutritious breakfast cereals?

From Allmond, S., Wells, J., & Makar, K. (2010). *Thinking through mathematics: Engaging students with inquiry-based learning. Book 3, Ages 10-13*. Education Services Australia.

Possible alignment of inquiry with Australian Curriculum: Mathematics:

Content Descriptors	Proficiencies
<p>Yr 7</p> <p><b>ACMNA157</b> Connect fractions, decimals and percentages and carry out simple conversions.</p> <p><b>ACMNA158</b> Find percentages of quantities and express one quantity as a percentage of another, with and without digital technologies.</p> <p><b>ACMSP169</b> Identify and investigate issues involving numerical data collected from primary and secondary sources.</p>	<p>Examples for Yr 6</p> <p><b>Understanding</b></p> <ul style="list-style-type: none"> <li>Representing fractions and decimals in various ways and describing connections between them</li> <li>Explaining the connection between decimal representations and the metric system</li> </ul> <p><b>Fluency</b></p> <ul style="list-style-type: none"> <li>Calculating simple percentages</li> <li>Converting between fractions and decimals</li> <li>Converting between decimals and percentages</li> <li>Constructing and reading data displays</li> </ul> <p><b>Problem Solving</b></p> <ul style="list-style-type: none"> <li>Formulating and solving authentic problems using fractions, decimals, percentages and measurements</li> <li>Interpreting data displays to solve an authentic problem</li> </ul> <p><b>Reasoning</b></p> <ul style="list-style-type: none"> <li>Explaining mental strategies for performing calculations</li> <li>Comparing and critiquing data displays</li> </ul>
<p>Yr 6</p> <p><b>ACMNA131</b> Make connections between equivalent fractions, decimals and percentages.</p> <p><b>ACMMG135</b> Connect decimal representations to the metric system.</p> <p><b>ACMSP147</b> Interpret and compare a range of data displays, including side-by-side column graphs for two categorical variables.</p>	
<p>Yr 5</p> <p>Consider that percentages are not explored in this year level. You may wish to focus on comparing the nutrients in each cereal (e.g. Fat per 100g is 3.8g).</p> <p><b>ACMNA105</b> Compare, order and represent decimals.</p> <p><b>ACMSP118</b> Pose questions and collect categorical or numerical data by observation or survey.</p> <p><b>ACMSP119</b> Construct displays, including column graphs, dot plots and tables, appropriate for data type, with and without the use of digital technologies.</p> <p><b>ACMSP120</b> Describe and interpret different data sets in context.</p>	