# More Pizza for Me

Topic: Number

A structured problem-solving lesson built around fractions and proportion.

### Year Group: 2<sup>nd</sup> Year Level: Mixed Ability

#### **Presenting the Problem**

You have to decide between two parties: Nicola has invited nine people and is ordering nine twelve-inch pizzas. Claire has invited nine people but she is only ordering four eighteen-inch pizzas. Which will provide them with the most pizza?



The Board Plan

Prior Knowledge &

ising the Task 10 minutes











Adesope \*Cutting out Sectors

Presentation of Solutions & Ceardaíocht 20 minutes



#### Reflecting on the Learning

We were surprised by what methods students were initially drawn to when beginning the problem solving process. We noticed that student didn't opt to solve the problem using, what we considered, the most naïve method of solving. Higher level students were less likely to begin solving the problem using the cutting methods. These students seemed confused by the number of worksheets provided and instead looked for a formula or a more mathematical method to solve the task. In contrast the ordinary level students were content with the number of worksheet they had to solve the problem. They were more adventurous and explored a number of options to find the answer. Students did achieve their learning goals. At the end of the lesson students were aware that there were a number of methods that could be applied to derive the correct answer



Developed by Nicola Doyle, Sharon Mack and Claire Shortall, with thanks to Philip Brady MDT and the students of St. Marks Community School, Dublin 24

To download this lesson plan visit www.projectmaths.ie/mc2017





## Maths Counts 2017 Engaging teachers in Lesson Study

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