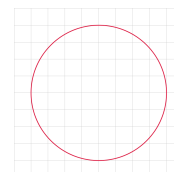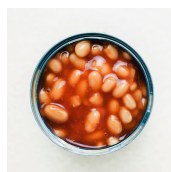# Tin of Beans

Topic: Volume

This problem challenges students to consider multiple approaches to find the volume of a tin of beans.

Year Group: 2nd Year
Level: Higher

Presenting the Problem

You have applied for a job at a baked bean factory, as part of the application you must find the volume of this tin of beans.

The Board Plan

| Prior Knowledge & Posing the Task 5 minutes | → | Students working on the problem 10 minutes | → | Presentation of Solutions & Ceardaíocht 20 minutes | → | Summing up & Reflection 5 minutes |

Reflecting on the Learning

Most students calculated the area of the circle, however many struggled to use this to calculate the volume of the cylinder. Some students tried to associate the dimensions of the cylinder with the length, width and height of a cuboid. Students worked diligently, communicated their mathematical thinking really well and helped each other. We feel that this type of lesson is important to encourage students to develop their problem-solving skills.

Developed Úna Hegarty (St. Aidan's CC), Seamus Murphy (Deerpark CBS) and Áine McCarthy (Pobalscoil na Tríonoide), with thanks to Iris Graham MDT and the students from Student Aidan's CC, Cork.

Maths Counts 2017
Engaging teachers in Lesson Study
Maynooth University, 3rd-4th March 2017