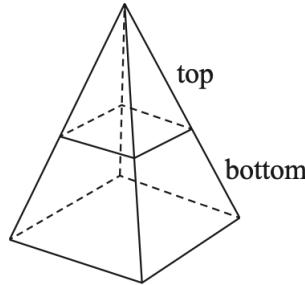


Dr Oliver Mathematics
Worked Examples
Mass, Density, and Volume 4

From: Edexcel GCSE Mathematics 2022 November Paper 3H (Calculator)

1. The pyramid **P** is formed from two parts made of different materials.

(5)



- The top part of **P** has a mass of 92.8 g and is made from material with a density of 2.9 g/cm^3 .
- The bottom part of **P** has a mass of 972.8 g.
- The average density of **P** is 4.7 g/cm^3 .

Calculate the volume of the top part of **P** as a percentage of the total volume of **P**.
Give your answer correct to 1 decimal place.
You must show all your working.