

Dr Oliver Mathematics
Worked Examples
Ratio 3

From: Edexcel 2022 June Paper 2H (Calculator)

1. Carlo puts tins into small boxes and into large boxes. (5)

He puts 6 tins into each small box.

He puts 20 tins into each large box.

Carlo puts a total of 3 000 tins into the boxes so that

$$\text{number of tins in small boxes} : \text{number of tins in large boxes} = 2 : 3.$$

Carlo says that less than 30% of the boxes filled with tins are large boxes.

Is Carlo correct?

You must show all your working.