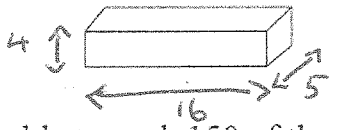
M2 = 31 days to go!

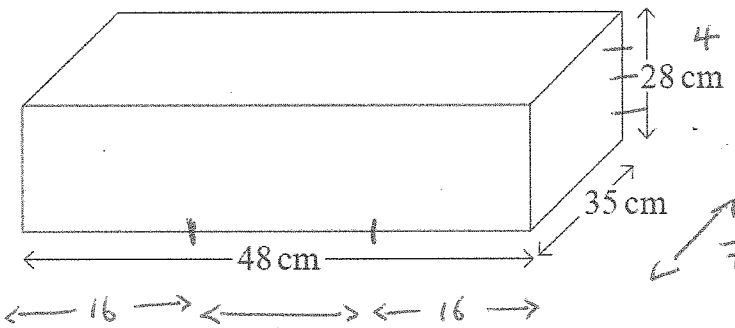
12 The packaging for a tube of toothpaste is a cuboid measuring 16 cm × 5 cm × 4 cm.



Volume = 16×5×4
= 320 cm³

The manufacturer wants to be able to pack 150 of these tubes into a cardboard box.
The box is a cuboid.
The box measures 48 cm × 35 cm × 28 cm.

Volume
= 48×35×28
= 47040 cm³



Will the box be big enough to hold 150 tubes of toothpaste in their packaging?
You must show working to explain your answer.

Do 150 of the small fit into the big

320 × 150 = 48000 cm³

But the big box only has volume 47040 cm³

Answer NO [3]

3 marks so lots of method needed