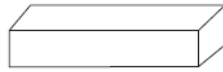


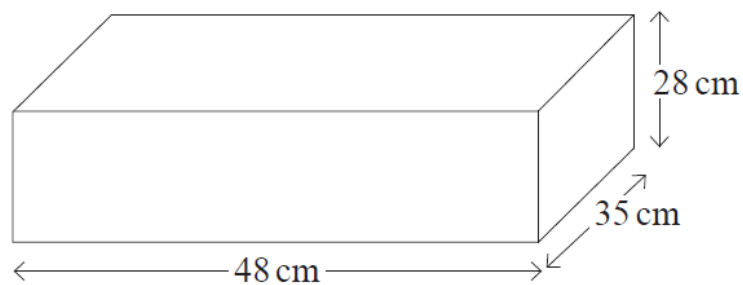
# ***m2 = 31 days to go!***

- 12** The packaging for a tube of toothpaste is a cuboid measuring  $16\text{ cm} \times 5\text{ cm} \times 4\text{ cm}$ .



The manufacturer wants to be able to pack 150 of these tubes into a cardboard box.  
The box is a cuboid.

The box measures  $48\text{ cm} \times 35\text{ cm} \times 28\text{ cm}$ .



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

Answer \_\_\_\_\_ [3]

