

m3 = 24 days to go!

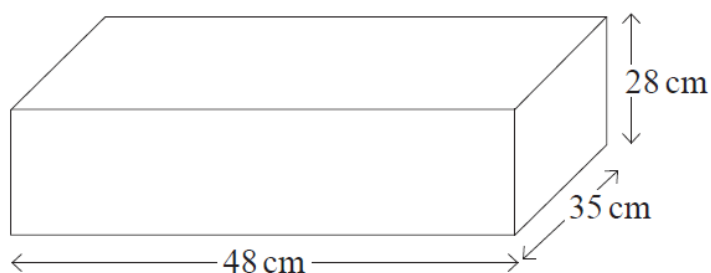
4 The packaging for a tube of toothpaste is a cuboid measuring $16\text{ cm} \times 5\text{ cm} \times 4\text{ cm}$.



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]

15 Solve the equation $p + 15 = 2(4p - 3)$

Answer $p =$ _____ [3]

22 Solve the equation

$$\frac{2x - 1}{3} + \frac{x + 2}{2} + \frac{x}{6} = 8$$

Show all your working clearly.

A solution by trial and improvement will not be accepted.

Answer $x =$ _____ [5]