

14th August



Corbettmaths

Increase 40kg by 20%

$$10\% = 4$$

$$20\% = 8$$

$$48 \text{ kg}$$

A ferry leaves a port every 15 minutes, starting at 09:00

The last ferry leaves at 16:30

How many times does a ferry leave the port during one day?

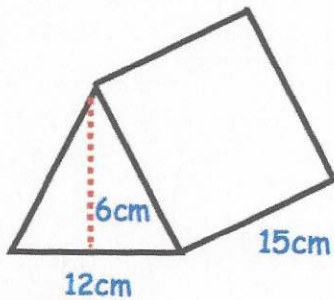
31

09:00 09:15 09:30 09:45
 10:00 10:15 10:30 10:45
 11:00 11:15 11:30 11:45
 12:00 12:15 12:30 12:45
 13:00 13:15 13:30 13:45
 14:00 14:15 14:30 14:45
 15:00 15:15 15:30 15:45
 16:00 16:15 16:30

The n th term of a sequence is $n^2 - 1$

Work out the first 5 terms

0 3 8 15 24



Find the volume

$$\begin{aligned} \text{Area of front} &= \frac{1}{2}(12 \times 6) \\ &= \frac{1}{2}(72) = 36 \\ \text{Volume} &= 36 \times 15 \\ &= 540 \text{ cm}^3 \end{aligned}$$

Calculate the n th term of:

10 13 16 19

$$3n + 7$$

Find the 200th term.

$$\begin{aligned} 3 \times 200 &= 600 \\ 600 + 7 & \\ &= 607 \end{aligned}$$