

24th June



Corbettmaths

$$1\frac{1}{5} + 3\frac{7}{10}$$

$$\frac{6}{5} + \frac{37}{10}$$

$$\frac{12}{10} + \frac{37}{10} = \frac{49}{10} = 4\frac{9}{10}$$

Find the volume of a cylinder with diameter 8cm and height 20cm.

$$\pi \times 4^2 \times 20$$

$$= 1005.3 \text{ cm}^3$$

A line has equation $y = -x + 8$

Write down the gradient of the line

-1

Write down the y-intercept of the line

8



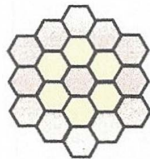
Pattern 1

1



Pattern 2

7



Pattern 3

19

Here is a sequence of patterns made from these tiles.

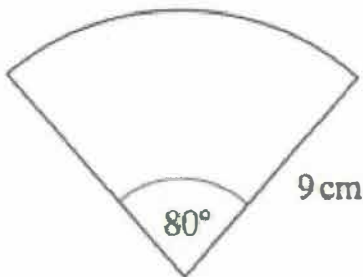
How many of these tiles are needed to make Pattern number 4?

37

+6

+12

+18



Calculate the perimeter of the sector.

$$\frac{80}{360} \times \pi \times 18 = 12.56$$

$$12.56 + 18 = 30.56 \text{ cm}$$