Name: _____   Date: _____

MATHS –Summer Holidays Revision Pack

Year 11-Higher
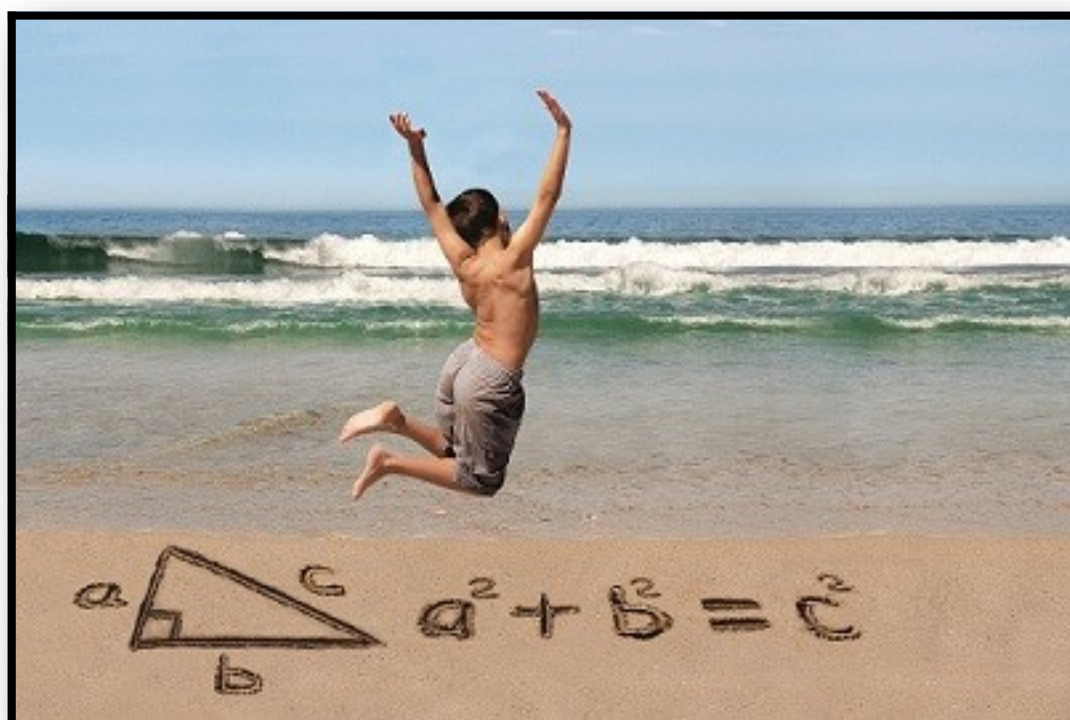
Teacher's Assessment			Self-Assessment
Red	**Amber**	**Green**	

My Parent/Carer Comment::

My Teacher Comment:

1 What is 1.75 kilometres as a fraction of 700 metres?

Circle your answer.

$$\frac{5}{2} \qquad\qquad \frac{1}{4} \qquad\qquad \frac{4}{1} \qquad\qquad \frac{2}{5}$$

2 The first 4 terms of a linear sequence are

$$3 \qquad 11 \qquad 19 \qquad 27$$

Circle the expression for the nth term.

$$8 - 5n \qquad\qquad n + 8 \qquad\qquad 8n + 3 \qquad\qquad 8n - 5$$

3 Doug owes an amount of £600

He wants to pay off this amount in five months.

He says,

"Each month, I will pay back 20% of the amount I still owe."

Show working to check if his method is correct.

_____

4 A motor racing circuit consists of

two parallel straight sections, each of length 0.75 km

a semicircle of diameter 0.9 km

three equal, smaller semicircles.

Not drawn accurately

←——— 0.75 km ———→
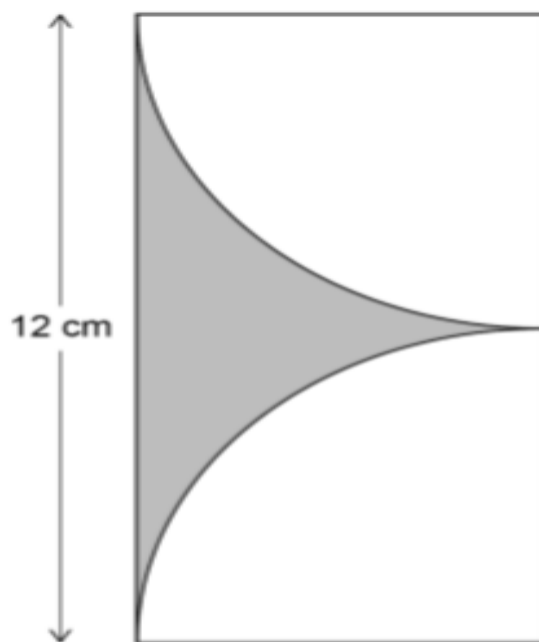
0.9 km

←——— 0.75 km ———→
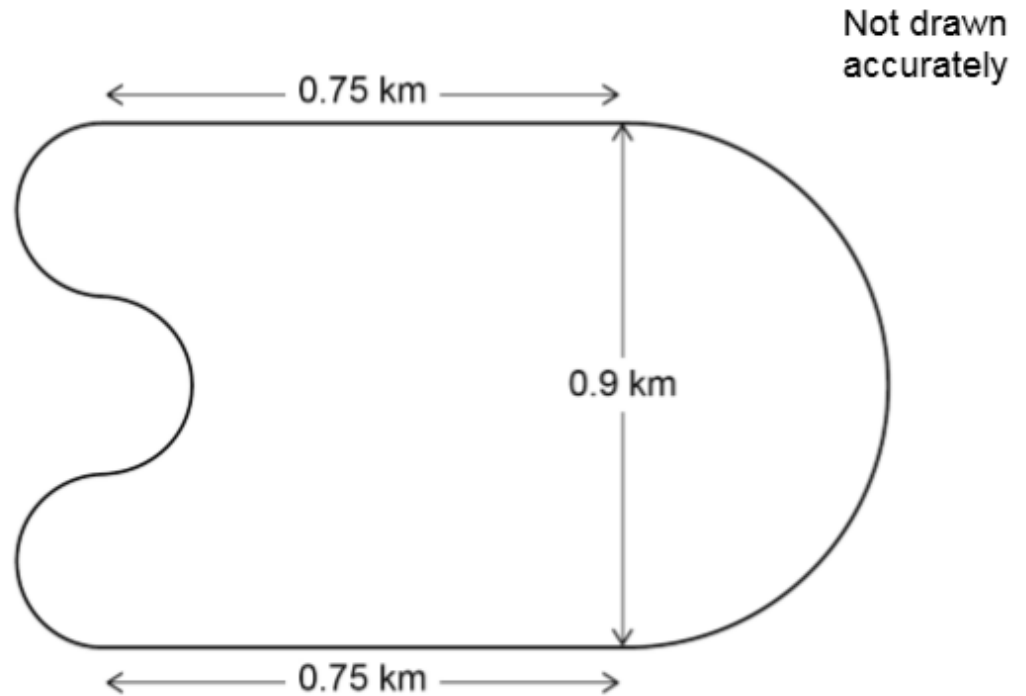
The length of a motor race must be greater than 305 km

What is the lowest number of **full** laps needed at this circuit?
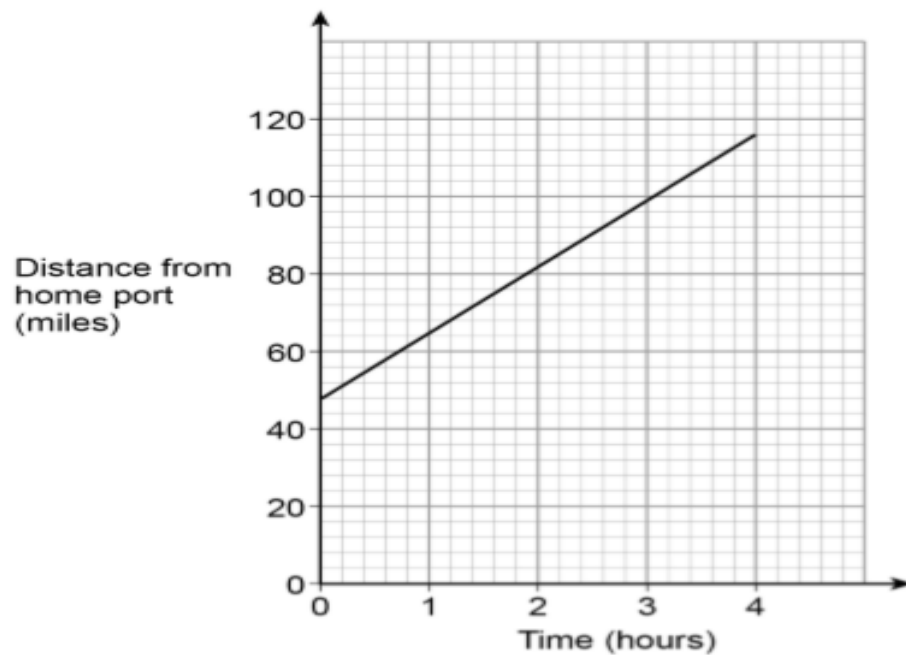
You **must** show your working.

_____

_____

_____

_____

_____

_____

_____

5 Two identical quarter circles are cut from a rectangle as shown.

Not drawn accurately

12 cm

Work out the shaded area.

6 A ship is sailing in a straight line from its home port.
The distance-time graph shows 4 hours of the journey.

Distance from home port (miles)

Time (hours)

Work out the speed of the ship during these 4 hours.