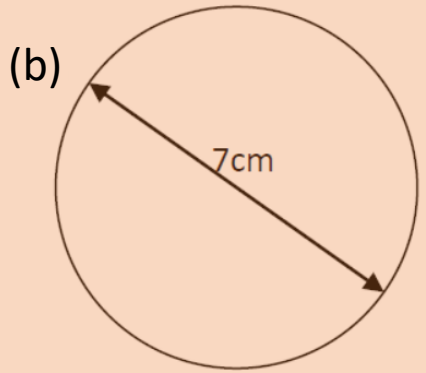
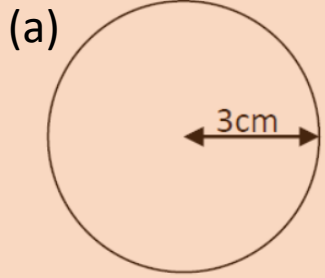


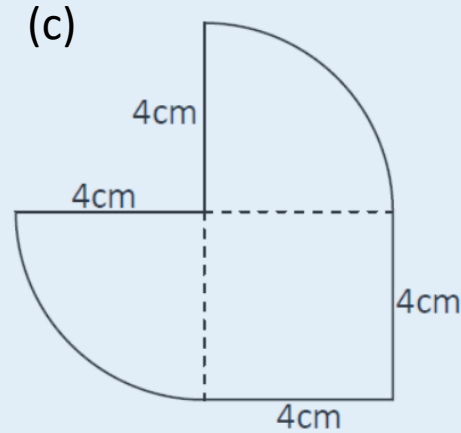
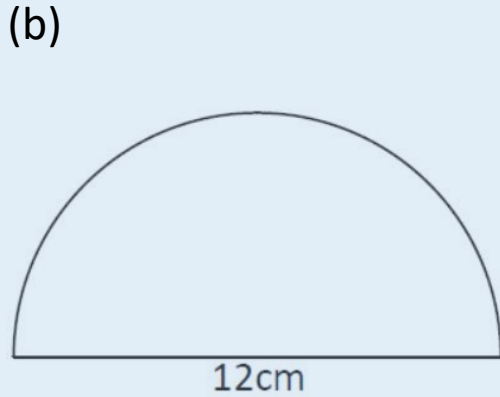
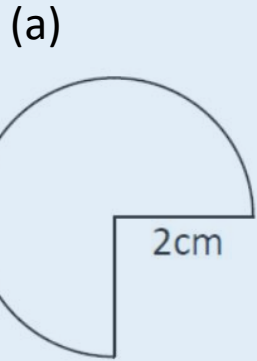
Calculate the area and circumference of these circles (to 1d.p.).

1



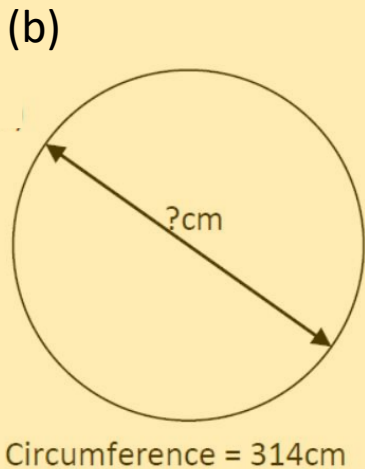
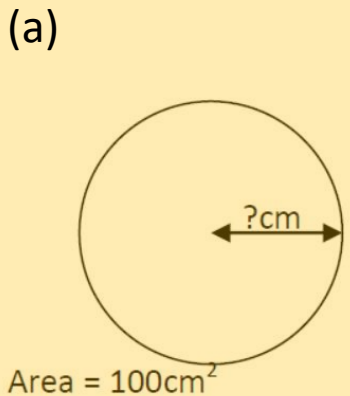
Calculate the area and perimeter of these shapes (to 3s.f.)

2



Calculate the missing lengths (to 2s.f)

3



Formulae needed:

$$A = \pi r^2$$

$$C = \pi D \text{ or } 2\pi r$$

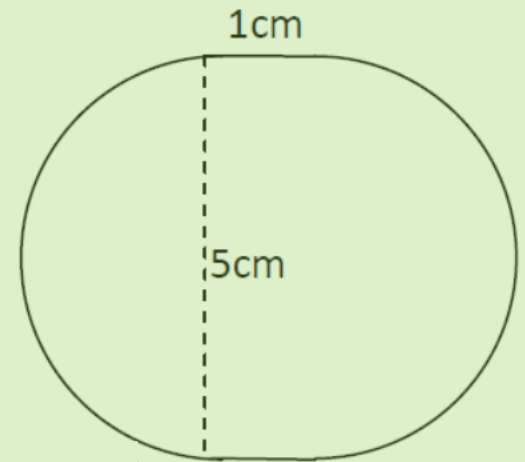
Other notes:

1 : 10000 for every 1cm drawn represents 10000cm in real life

The path of a running track is shown with dimensions using a scale of 1:10000.

What is the minimum number of full laps needed to run at least 20km?

4



You should write out the formulae used in your calculations and any substitution of values.