

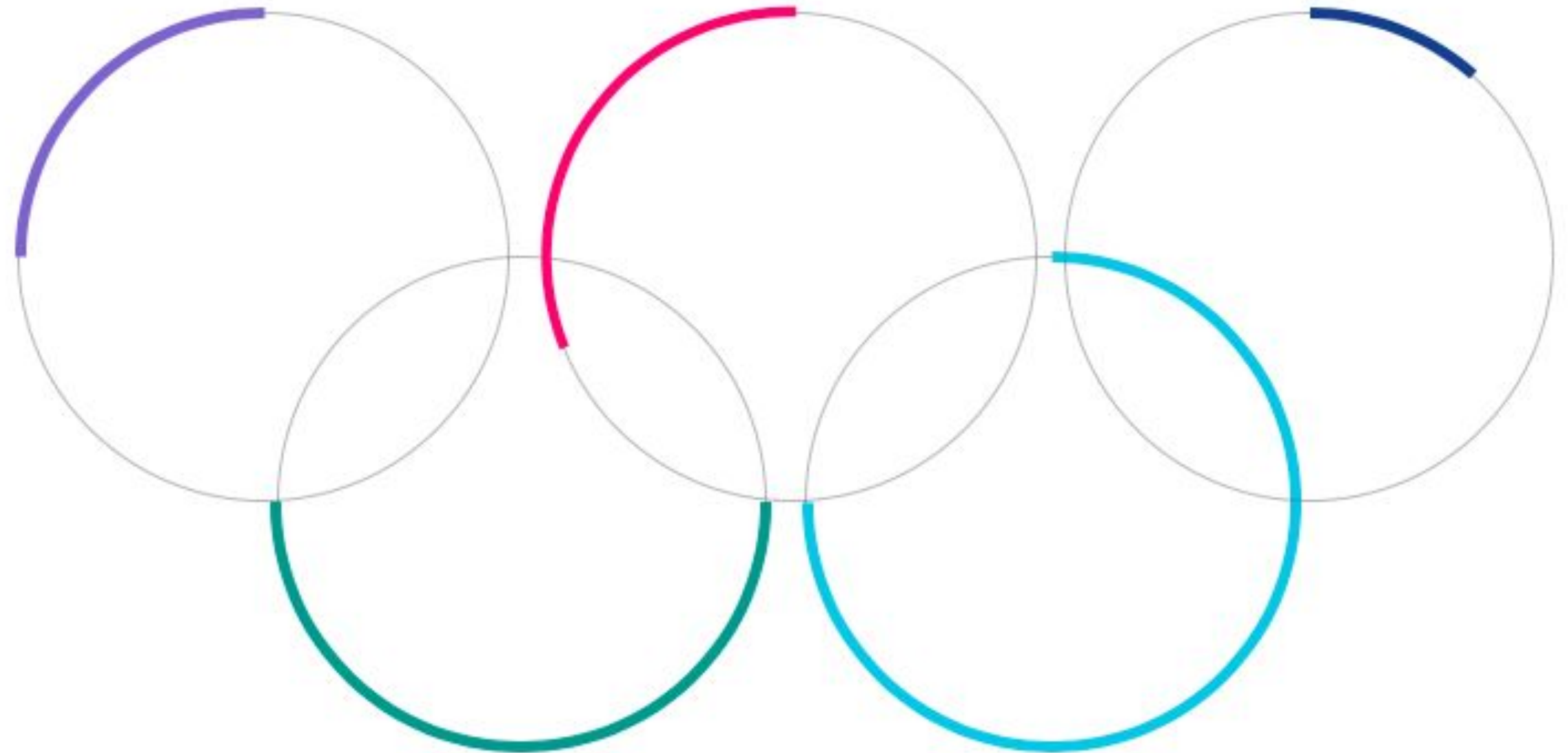
Mathematics

# Fractions of a circle

Mr Coward



# Try this



Estimate the length of each of the bold lines

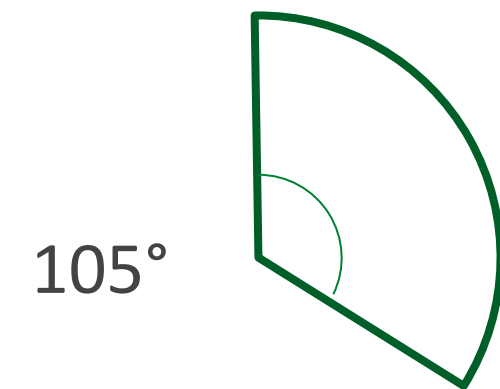
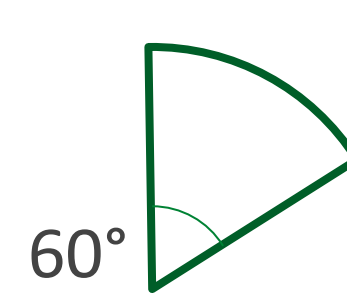
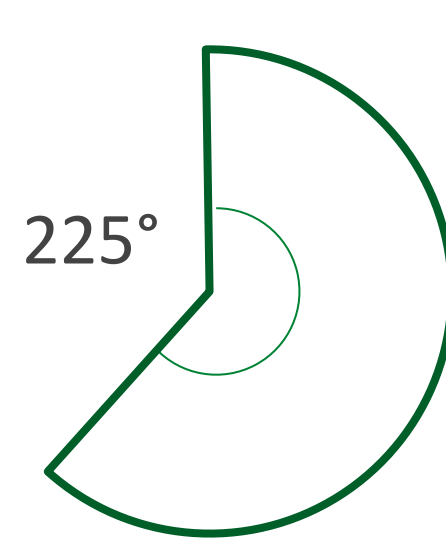
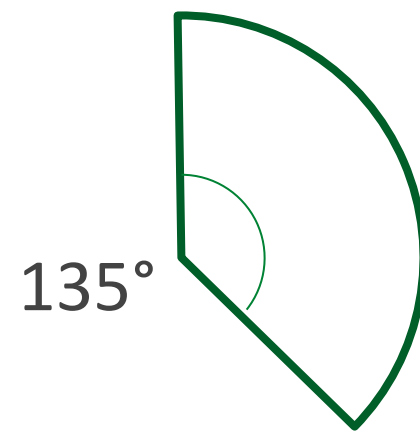
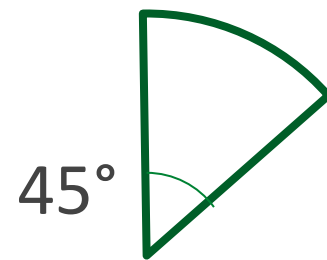
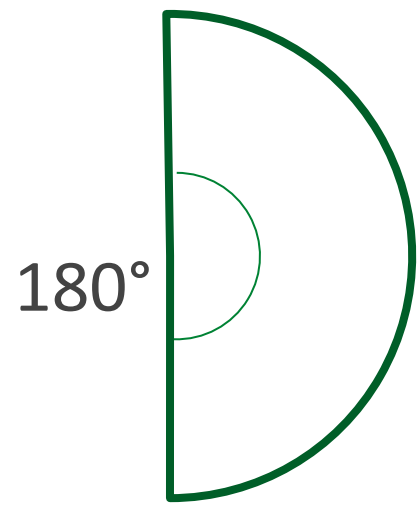
Can you estimate the circumference of the circle?



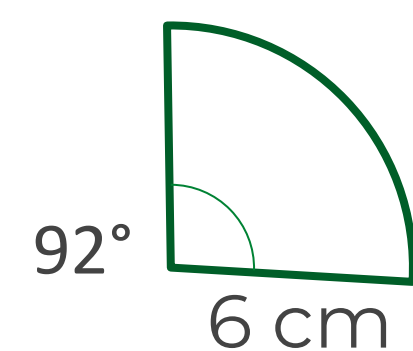
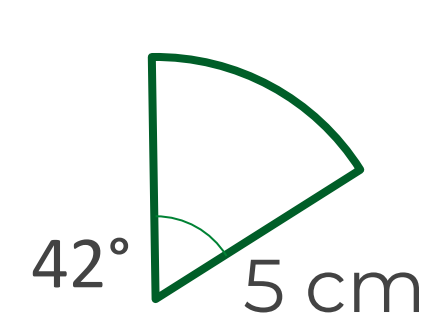
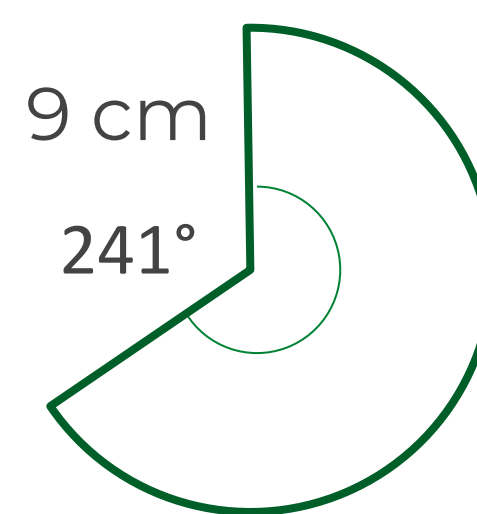
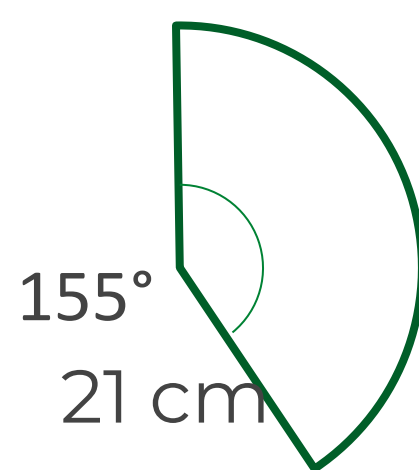
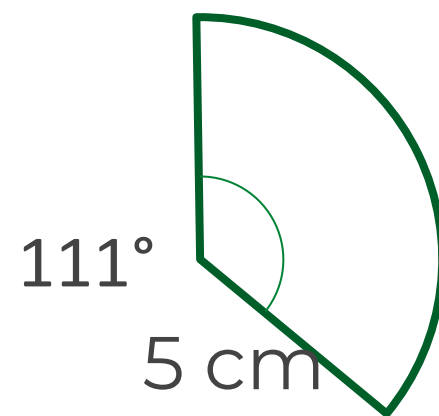
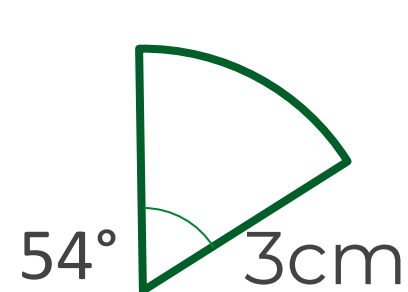
# Independent task

1) If the diameter of a full circle is 240mm, find the arc length for the rest of the shapes in mm.

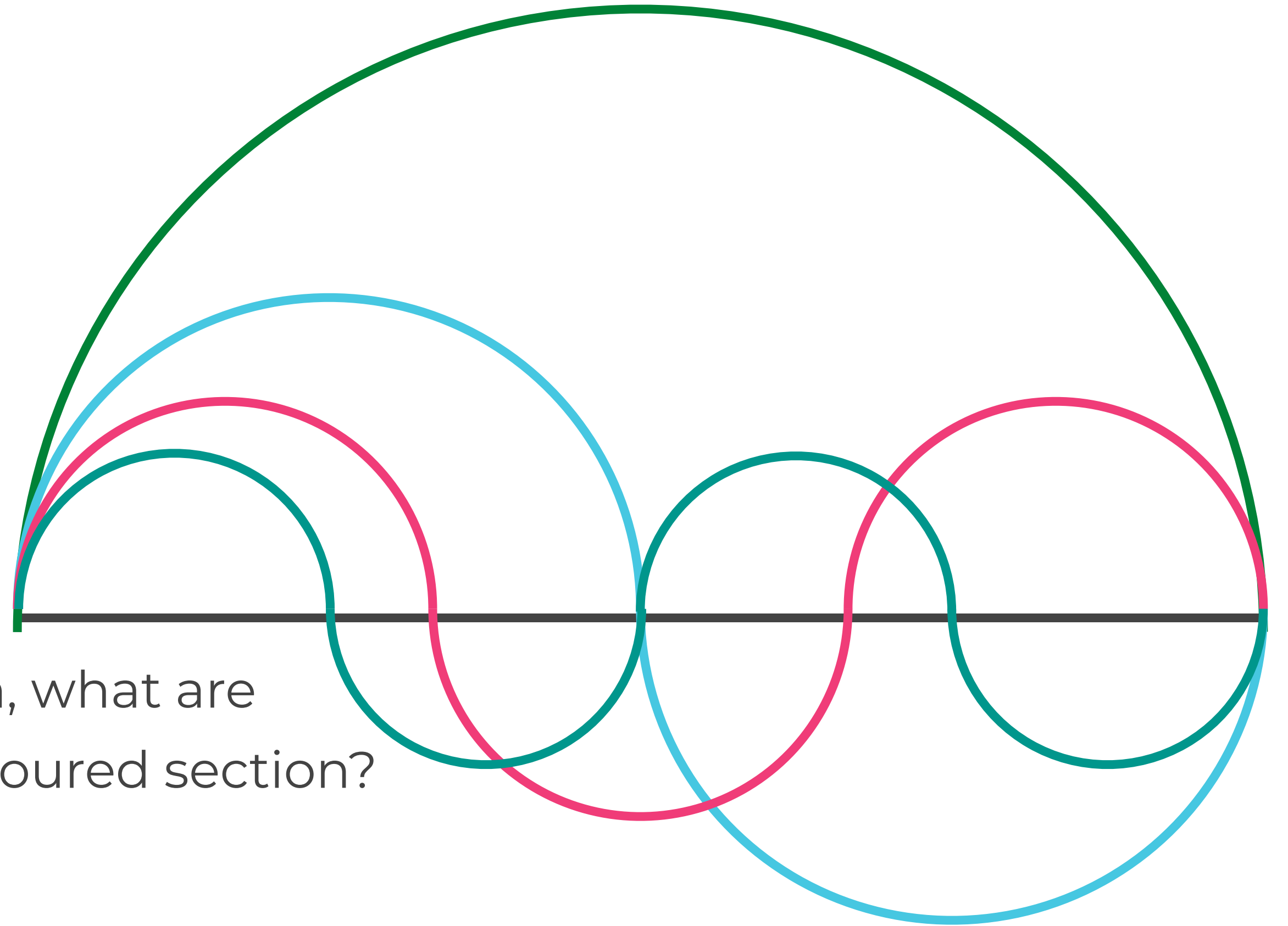
Give your answers in terms of  $\pi$ . Try this first without a calculator.



2) Find the arc length for each of these shapes. (Use a calculator and give your answers to 2 d.p.)



# Explore



If the grey line is 30 cm, what are the lengths of each coloured section?

What do you notice?

