## Summer Term Maths Year 10

## Circumference of a circle

Week 4

1
Find the circumference of these circles giving your answer in terms of $\pi$.

(b) $8.2 \pi \mathrm{~mm}$


2 Explain why two of the circles in question one have the same value for their circumference. Circles $a$ and $c$ have the Same diameter of 10 mm

3 Use a calculator to find the circumference of these circles giving your answers to 3 significant figures.
(a) 37.7 n

(b)

(d)


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4 Find the perimeter of the semi-circle giving your answer in terms of $\pi$.
$4 \pi+4$


5 Find the perimeter of the semi-circles, give you answer to 2 decimal places. 112.08 cm 56.04 cm


What do you notice about your answers?

The circumference of a circle is 90 cm .
(a) Find the diameter of the circle. 28.6 cm
(b) Find the radius of the circle 14.3 cm

7 A wheel with a diameter of 30 cm is rolled 50 m . How many complete revolutions does the wheel make? 53

8
The diagram below shows part of a children's toy. It has been made from a single piece of wire. What is the total length of wire? 22.1 cm


