JustMaths

A circle has a diameter of 12 cm .


Work out the circumference of the circle.
Give your answer correct to 3 significant figures.
$C=\pi \times d$
we've been gwen 'd'
$=\pi \times 5$
$=15.70796327$

$$
\begin{equation*}
=15.7 \mathrm{~cm} \tag{2}
\end{equation*}
$$

JustMaths
Here is a tile in the shape of a semicircle.


Diagram NOT accurately drawn

The diameter of the semicircle is 8 cm .
Work out the perimeter of the tile.
this word is important!
Give your answer correct to 2 decimal places.
FIRST think about a whole wade

$$
C=\pi \times d
$$

wive beenguend

$$
\begin{align*}
& =\pi \times 8 \\
& =25.1327423 \tag{3}
\end{align*}
$$

But we only want $\frac{1}{2}$ a aide.

$$
=25 \cdot 13274123 \div 2=12.56637061
$$

so we now have

we neat add

$$
\begin{aligned}
& =12.56637061+8 \\
& =20.56637061
\end{aligned}
$$

20.57 cm

## 0

JustMaths
A circle has a radius of 5 cm .


Work out the area of the circle.
Give your answer correct to 3 significant figures.

$$
\begin{aligned}
A & =\pi r^{2} \\
& =\pi \times 5^{2} \\
& =78.53981634
\end{aligned}
$$

JustMaths

The diagram shows a circular pond with a path around it.


Diagram NOT
accurately drawn

The pond has a radius of 5 m .
The path has a width of 1 m .
Work out the area of the path.
Give your answer correct to 3 significant figures.
Bigcircle


LITTLE CIRCLE


$$
\begin{aligned}
A & =\pi r^{2} \\
& =\pi \times 6^{2} \\
& =113.0973355 \mathrm{~m}^{2}
\end{aligned}
$$



