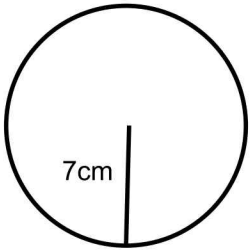
Area and Circumference of a Circle

Area = πr^2 Circumference = πd

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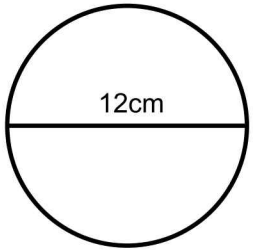
r = 7cm

d = 14cm

Give your answers in terms of π

Circumference = $\pi \times 14 = 14\pi$ cm

Area = $\pi \times 7^2 = 49\pi cm^2$



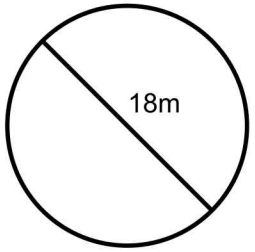
r = 6cm

d = 12cm

Give your answers in terms of π

Circumference = $\pi \times 12 = 12\pi$cm

Area = $\pi \times 6^2 = 36\pi cm^2$



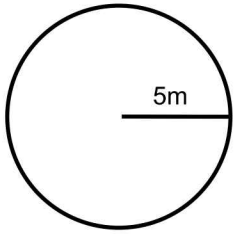
r = 9m

d = 18m

Give your answers to 1 decimal place

Circumference = $\pi \times 18 = 18\pi m$
$= 56.5m$

Area = $\pi \times 9^2 = 81\pi m^2$
$= 254.5m^2$



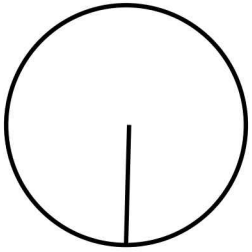
r = 5m

d = 10m

Give your answers to 1 decimal place

Circumference = $\pi \times 10 = 10\pi m$
$= 31.4m$

Area = $\pi \times 5^2 = 25\pi m^2$
$= 78.5m^2$



Area = 81π cm^2

$\pi r^2 = 81\pi$

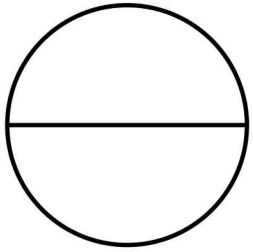
$r^2 = 81$

$r = 9$

Radius = 9cm

$d = 18cm$

Circumference = $\pi \times 18 = 18\pi$ cm
$= 56.5cm$



Circumference = 100π cm

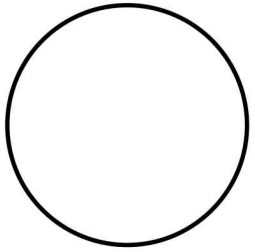
$\pi d = 100\pi$

$d = 100$

Diameter = 100cm

Radius = 50cm

Area = $\pi \times 50^2 = 2500\pi cm^2$
$7854.0cm^2$



Area = 10cm^2

$\pi r^2 = 10$

$r^2 = 10 \div \pi$

$r^2 = 3.18$

Give your answers to 1 decimal place

$r = \sqrt{3.18}$

Radius =
1.784cm

$d = 3.568cm$

Circumference =

$\pi \times 3.568 = 11.2cm$

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