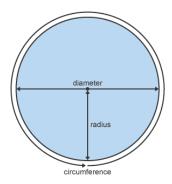
Level 4 Circle: Circumference and Area



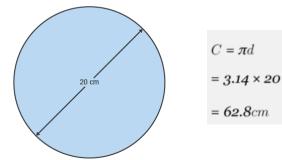
Circumference of a circle

For any circle with a diameter, d, the circumference, C, is found by using the **formula**:

where $\pi = 3.14$

 $C = \pi d$

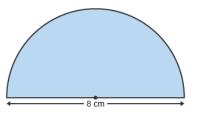
Calculate the circumference of the circle shown below.



The perimeter of a semicircle

Remember that the **perimeter** is the distance round the outside.

A semicircle has two edges. One is half of a circumference and the other is a diameter.



 $C = \pi d$ $= 3.14 \times 8$

= **25.12**cm

Remember this is the circumference of the whole circle, so now we need to half this answer.

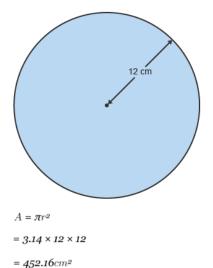
25.12 ÷ 2 = 12.56cm

Total perimeter = 12.56 + 8 = 20.56cm

Area of a circle

For any circle with radius, r, the area, A, is found using the formula:

 $A = \pi r^2$



The area of a semicircle

A semicircle is just half of a circle. To find the <u>area</u> of a semicircle we calculate the area of the whole circle and then half the answer.

