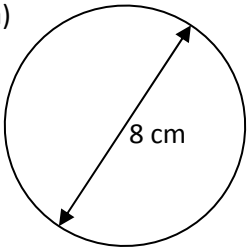
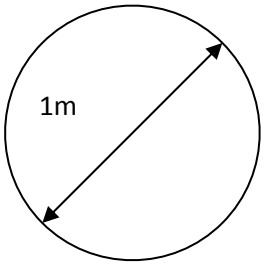
Circumference of a Circle

1. Find the circumference of these circles. Give your answers to 1 decimal place.

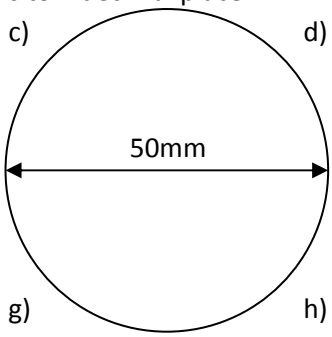
a)



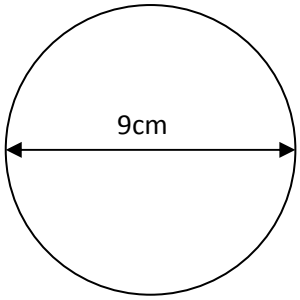
b)



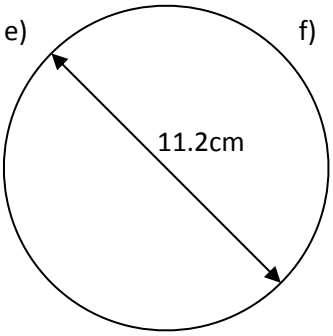
c)



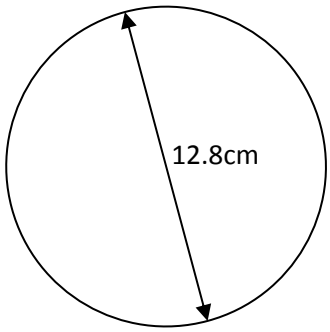
d)



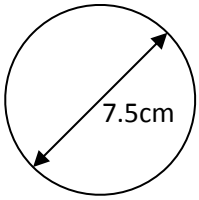
e)



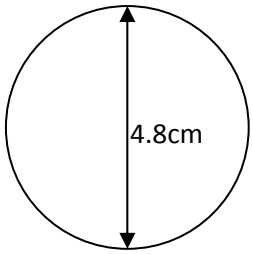
f)



g)

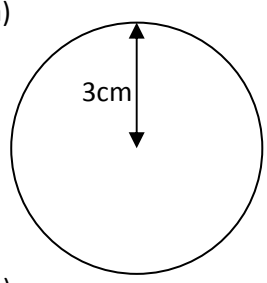


h)

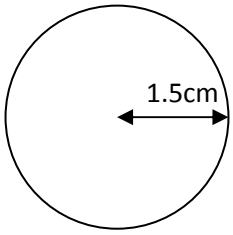


2. Find the circumference of these circles from their radii. Give your answers to 1 decimal place.

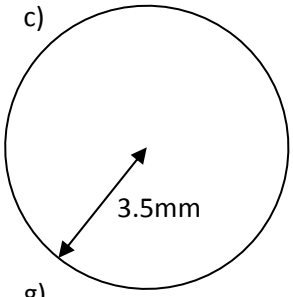
a)



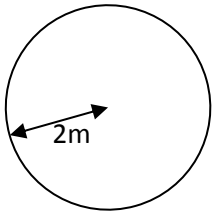
b)



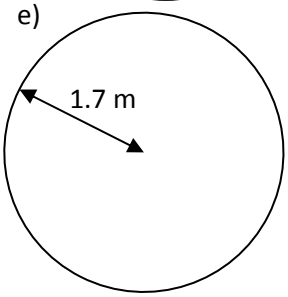
c)



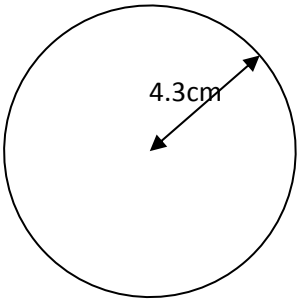
d)



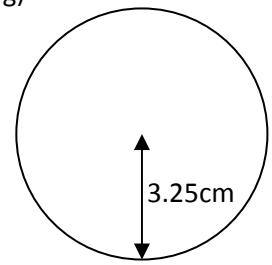
e)



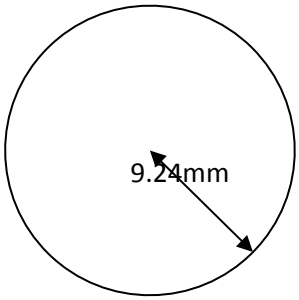
f)



g)

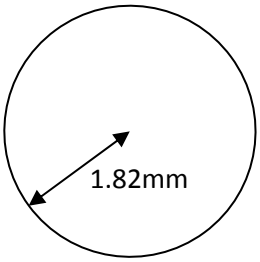


h)

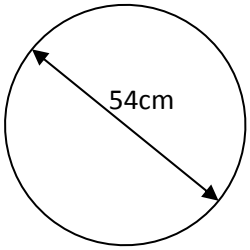


3. Find the circumference of these circles, for some you will need to work out the diameter first. Give your answers to 1 decimal place.

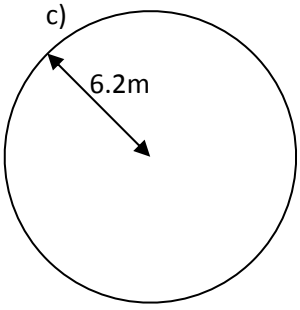
a)



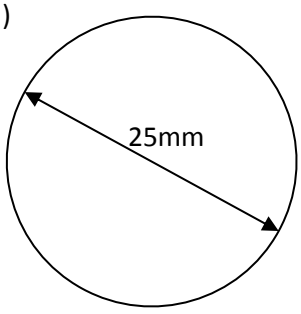
b)



c)

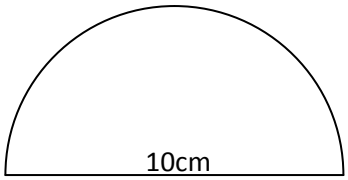


d)



4. Copy and complete to work out the perimeter of each of these shapes

a)



Curved edge $= \pi d \div 2$

$= \pi \times \_\_\_\_ \div 2$

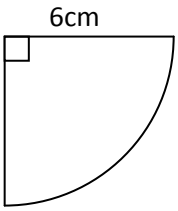
$= \_\_\_\_\_ cm$

Straight edge $= \_\_\_\_\_ cm$

Total Perimeter $= \_\_\_\_ + \_\_\_\_$

$= \_\_\_\_ cm$

b)



Diameter $= \_\_\_\_ \times 2$

Curved edge $= \pi d \div 4$

$= \pi \times \_\_\_\_ \div 4$

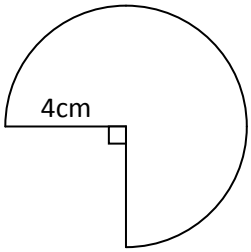
$= \_\_\_\_\_ cm$

Straight edges $= \_\_\_\_\_ cm$

Total Perimeter $= \_\_\_\_ + \_\_\_\_$

$= \_\_\_\_ cm$

c)



Diameter $= \_\_\_\_ \times 2$

Curved edge $= \frac{3}{4} \times \pi d$

$= \frac{3}{4} \times \pi \times \_\_\_\_$

$= \_\_\_\_\_ cm$

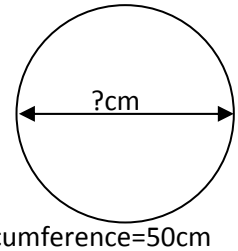
Straight edges $= \_\_\_\_\_ cm$

Total Perimeter $= \_\_\_\_ + \_\_\_\_$

$= \_\_\_\_ cm$

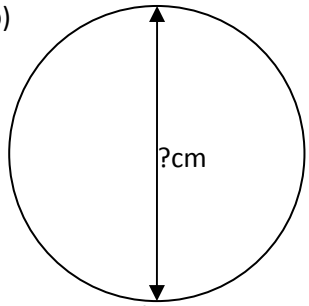
5. Find the radius in each of these circles. Give your answers to 1 decimal place.

a)



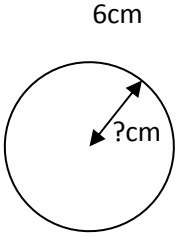
Circumference=50cm

b)



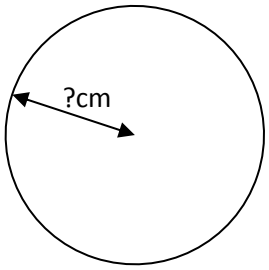
Circumference=314cm

c)



Circumference=45cm

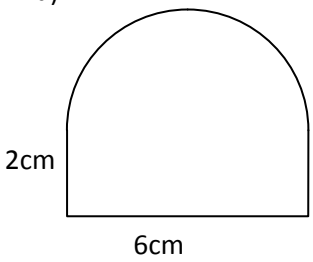
d)



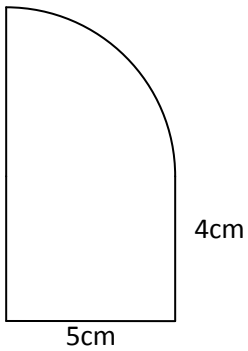
Circumference=80cm

6. Find the perimeter of these shapes.

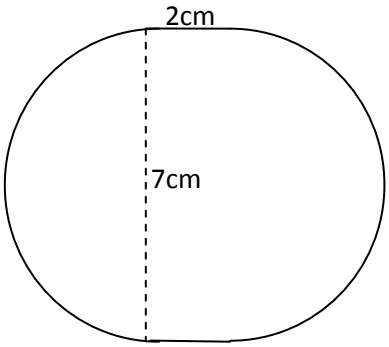
a)



b)



c)



7. A bicycle has a wheel of radius 30cm.

a) Find the circumference of the wheel.

b) How far does the bicycle go in 100 turns of the wheel? Give your answer in m.

8. Two wire circles of diameters 12cm and 8cm are cut and then joined to make one large circle. Find the diameter of this larger circle.

9. A giant paper clip is placed alongside a cm ruler.
The curved ends are semicircles.
Calculate the length of wire used to make the clip.