

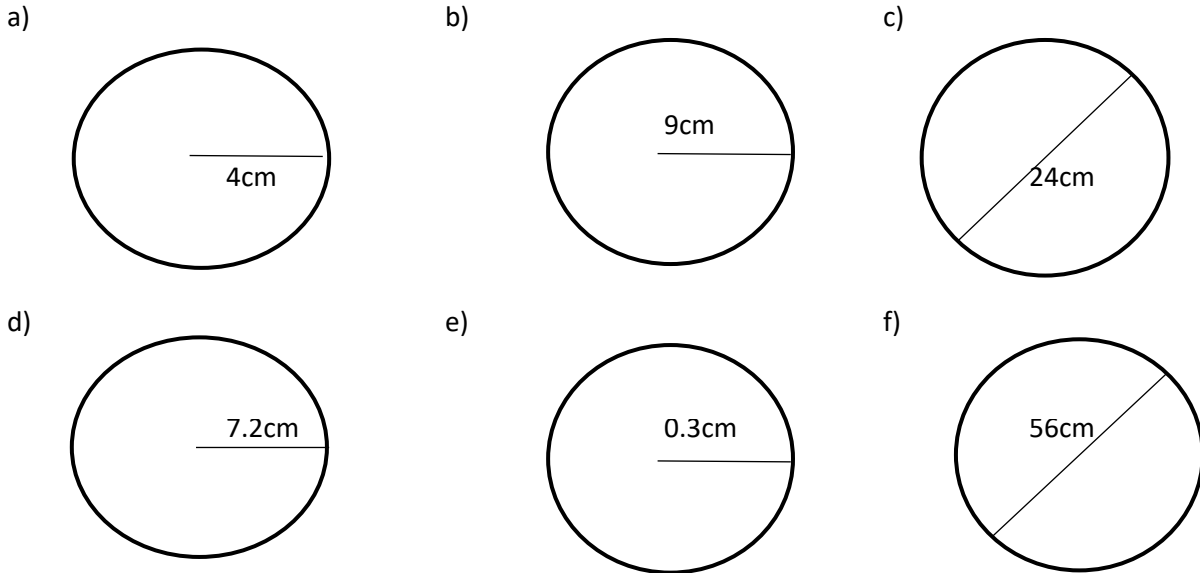
1 Draw a circle and on it draw the following terms

- a) Sector b) Radius c) Diameter d) Chord e) Circumference

2 What are the formulas for
 a) Area of a Circle
 b) Circumference

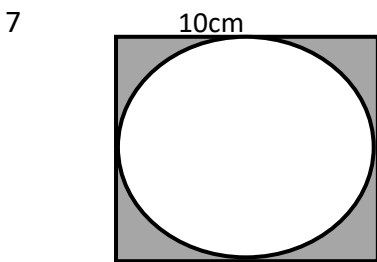
3 What is the number for π correct to 4 decimal places?

4 Find the areas of the following circles Correct your answer to 1 decimal place

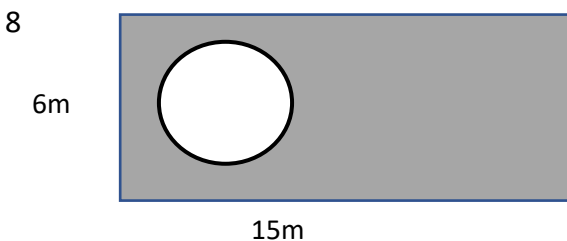


5 Now find the circumferences of the above circles

6 Mary has a garden pond that has a diameter of 4.2m, she wants to cover it with a net, what area of netting will she need?



- Here is a square of side length 10cm with a circle inside
- what is the diameter of the circle?
 - what is the radius of the circle?
 - what is the area of the square?
 - what is the area of the circle?
 - Now work out the shaded area

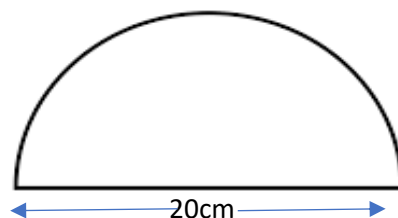


John has a garden of length 15 m by width of 6m
 At one end he has a pond of diameter 3m.
 The rest of the garden is lawn
 John would like to reseed the lawn
 Grass seed comes in boxes that cover $5m^2$

How many boxes will John need?

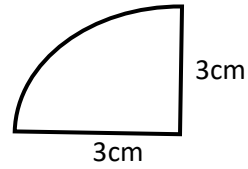
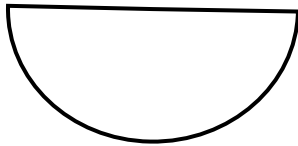
9 This is a semicircle (half of a circle)
 diameter = 20cm

- what is its radius?
- work out its area
- now work out its perimeter, remember perimeter is the total distance round the shape



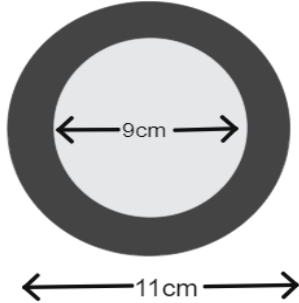
10 Work out the Perimeter of these shapes

A semicircle of radius 8cm



A quarter of a circle of radius 3cm

11



The diagram shows an outer circle with a diameter of 11cm and an inner circle with a diameter of 9cm.

- Work out the area of the outer circle
- Work out the area of the inner circle
- work out the shaded area round to 1 decimal place

12 Jason has a bicycle with a front wheel of radius 40cm

- What is the circumference of Jason's wheel?
- in one revolution how far does Jason's wheel travel?

Jason cycles his bike up the road, the front wheel makes 20 revolutions.

- what distance up the road does Jason cycle?
give your final answer in metres

