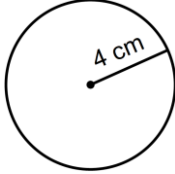
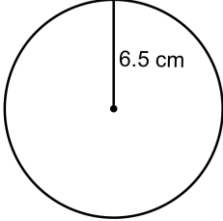
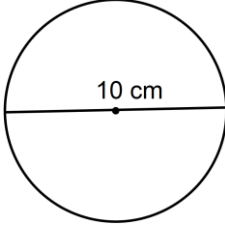
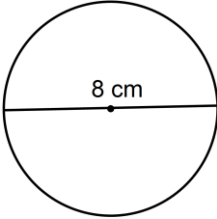
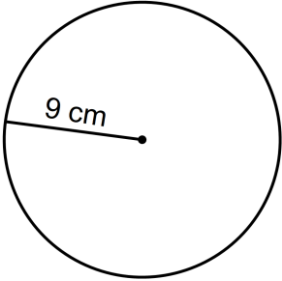
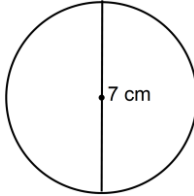
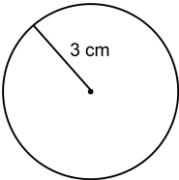
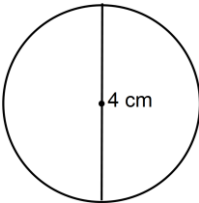
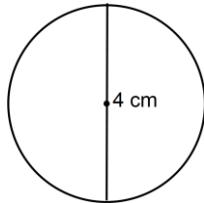
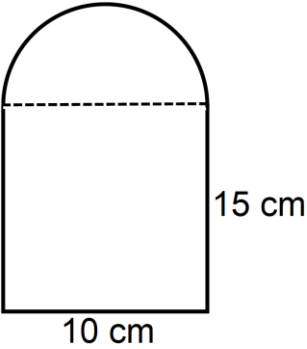
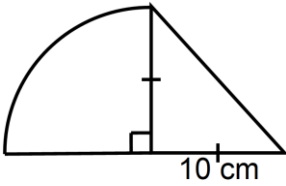
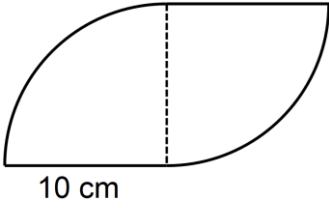


Circles

Foundation: Geometry and Measures

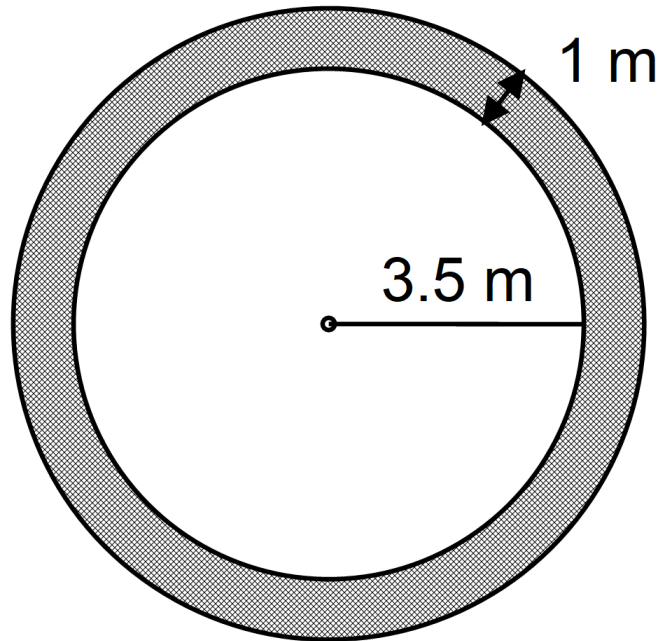
I can.....

1	<p>Calculate the area of the circles (answers to 1 decimal place)</p> <p>a)  b)  c) </p>	Calculate the area of a circle
2	<p>Calculate circumference of the circles (answers to 1 decimal place)</p> <p>a)  b)  c) </p>	Calculate the circumference of a circle
3	<p>Leaving your answers in terms of π calculate</p> <p>a) the area  b) the circumference  c) the area </p>	Calculate the area and circumference of a circle in terms of π
4	<p>Calculate the area and perimeter of each shape (answers to 1 decimal place)</p> <p>a)  b)  c) </p>	Calculate the area and perimeter of compound shapes

- 5 Pizzas are sold in 2 different sizes
 10 inch diameter £8.50
 12 inch diameter £10.00

Which is the best value for money?

- 6 A large circular pond is to be surrounded by a gravel path 1 m wide. Gravel costs £4.50 for a bag to cover 0.8 m^2 , plus a £9.00 delivery charge. (Only full bags are available)

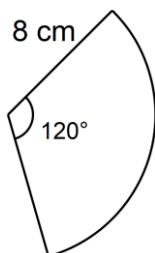


Solve problems involving circles

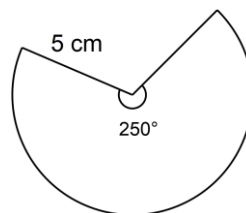
Calculate the total cost.

- 7 Calculate the arc length and area of each of the following sectors

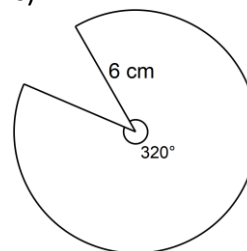
a)



b)



c)

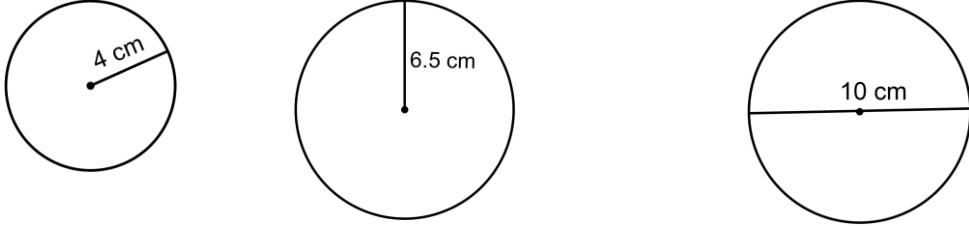
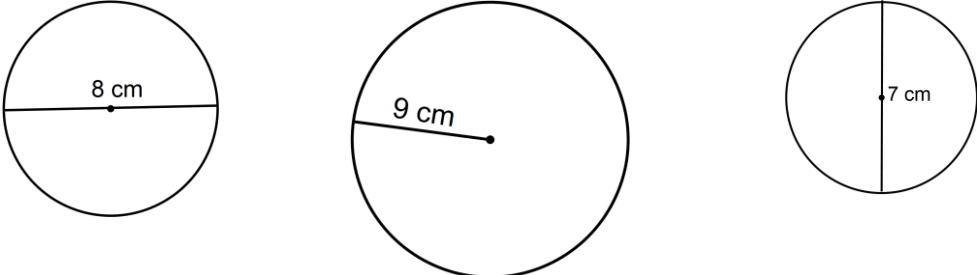
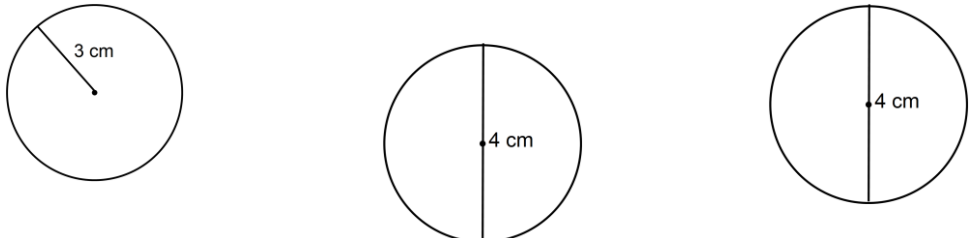
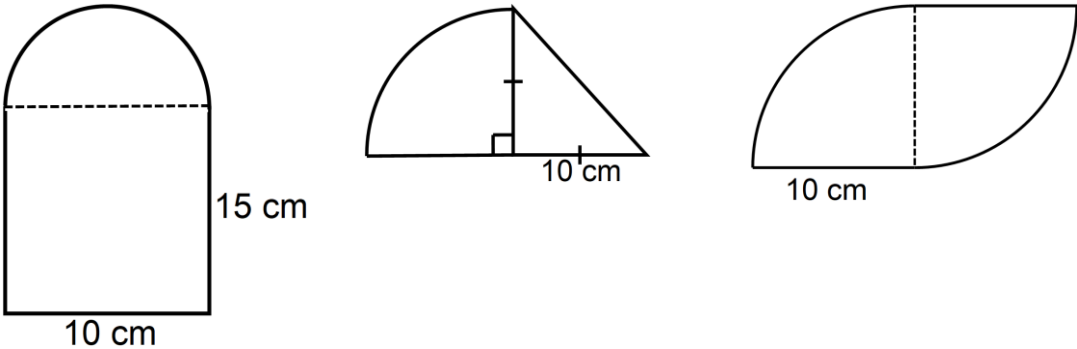


Calculate the arc length and area of sectors

Circles

Foundation: Geometry and Measures

I can.....

<p>1 Calculate the area of the circles (answers to 1 decimal place)</p> <p>a) 50.3 cm^2 b) 132.7 cm^2 c) 78.5 cm^2</p> 	<p>Calculate the area of a circle</p>
<p>2 Calculate circumference of the circles (answers to 1 decimal place)</p> <p>a) 25.1 cm b) 56.5 cm c) 22.0 cm</p> 	<p>Calculate the circumference of a circle</p>
<p>3 Leaving your answers in terms of π calculate</p> <p>a) the area b) the circumference c) the area</p> <p>$9\pi \text{ cm}^2$ $4\pi \text{ cm}$ $4\pi \text{ cm}^2$</p> 	<p>Calculate the area and circumference of a circle in terms of π</p>
<p>4 Calculate the area and perimeter of each shape (answers to 1 decimal place)</p> <p>a) 189.3 cm^2 b) 128.5 cm^2 c) 157.1 cm^2</p> 	<p>Calculate the area and perimeter of compound shapes</p>

5

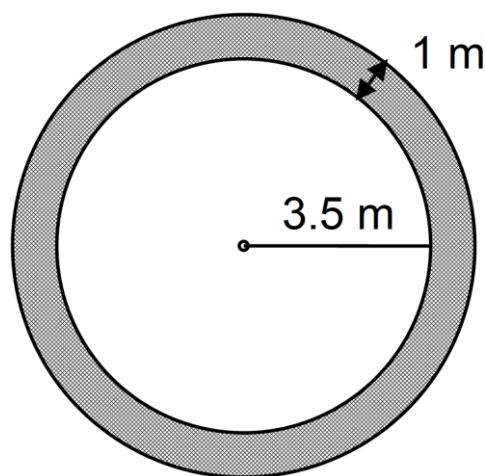
Pizzas are sold in 2 different sizes

10 inch diameter £8.50 $25\pi \div 8.5 = 9.24$ 12 inch diameter £10.00 $36\pi \div 10 = 11.31$

Which is the best value for money?

12 inch diameter gives better value for money 11.31 inches² per £1

6

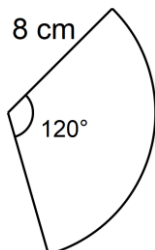
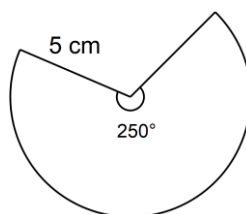
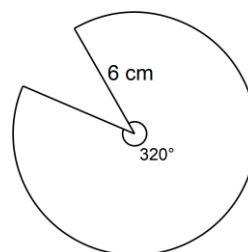
A large circular pond is to be surrounded by a gravel path 1 m wide. Gravel costs £4.50 for a bag to cover 0.8 m², plus a £9.00 delivery charge. (Only full bags are available)

Calculate the total cost.

Number of bags = $\pi(4.5^2 - 3.5^2)/0.8$ **Cost = $32 * 4.5 + 9$
= £153**

7

Calculate the arc length and area of each of the following sectors

a) **Arc Length = 16.8cm**
Area = 67.0 cm²b) **Arc Length = 21.8 cm**
Area = 54.5 cm²c) **Arc Length = 33.5 cm**
Area = 100.5 cm²

Solve problems involving circles

Calculate the arc length and area of sectors