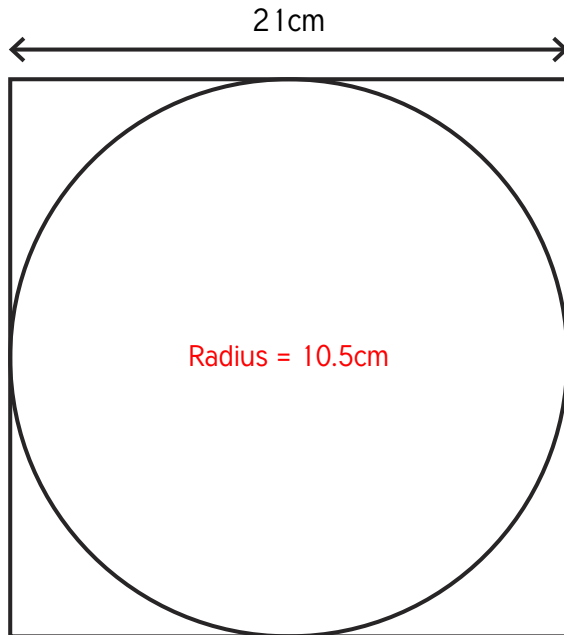


# Circle Reasoning Discussion Adult Guidance

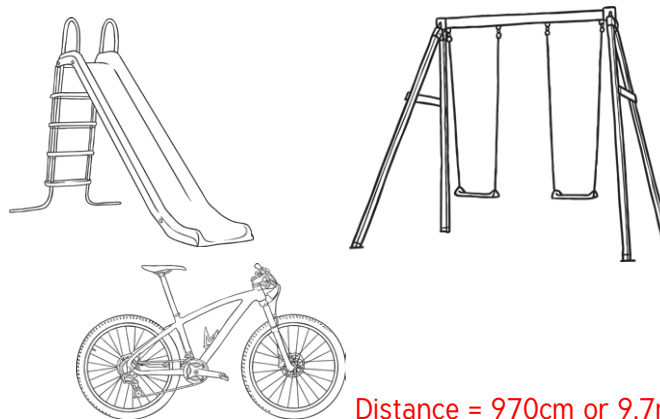
## Question 1

This design is made up of a circle inside a square. Calculate the radius of the circle.



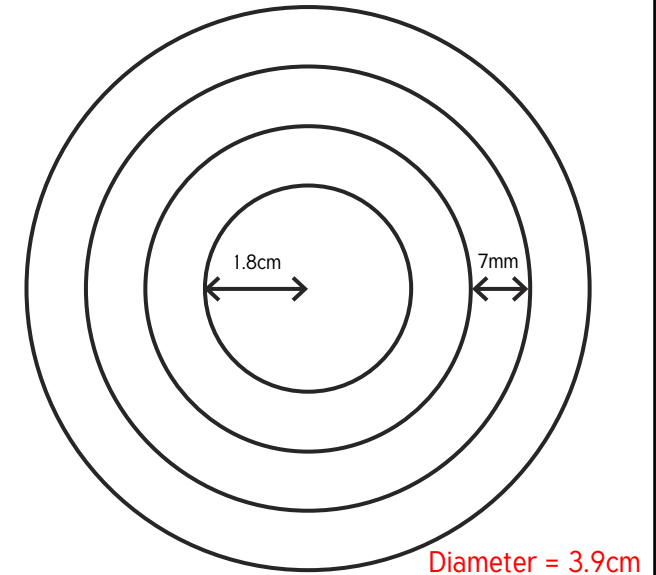
## Question 2

The bicycle travelled from the swings to the slide turning its wheels 10 times. The circumference of the bicycle wheels is 97cm. Calculate the distance from the swings to the slide.



## Question 3

Here are 4 concentric circles. The radius of the smallest circle is 1.8cm. The gap between the rest of the circles is always 7mm. Calculate the diameter of the largest circle.



- The diameter of the circle is 21cm. Therefore, the radius can be calculated using the formula  $d \div 2 = r$   
 $21\text{cm} \div 2 = 10.5\text{cm}$

- The circumference of the wheel is 97cm and the wheels turned ten full revolutions. Therefore, the distance can be calculated using the formula:  
circumference  $\times$  revolutions = distance  
 $97\text{cm} \times 10 = 970\text{cm}$   
9.7m

- The distance from the middle of the diagram to the edge of the largest circle is:  
 $1.8\text{cm} + (7\text{mm} \times 3)$   
 $1.8\text{cm} + 2.1\text{cm} = 3.9\text{cm}$  or 39mm