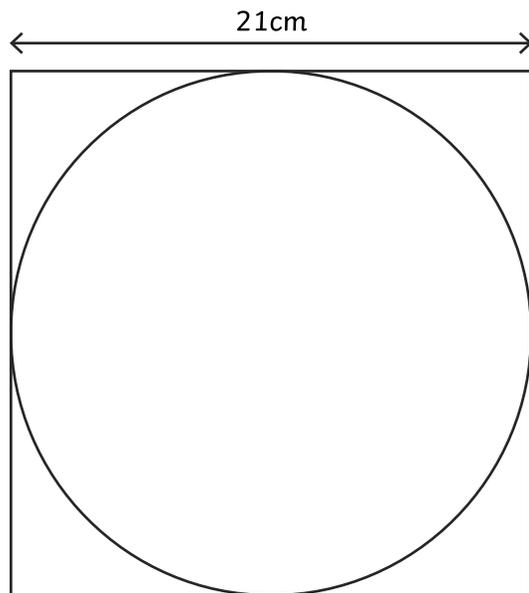# Circle Reasoning

I can solve reasoning questions about knowing that the radius is twice the diameter.

Work with your partner to discuss and solve these reasoning questions.

Question 1

This design is made up of a circle inside a square. Calculate the radius of the circle.
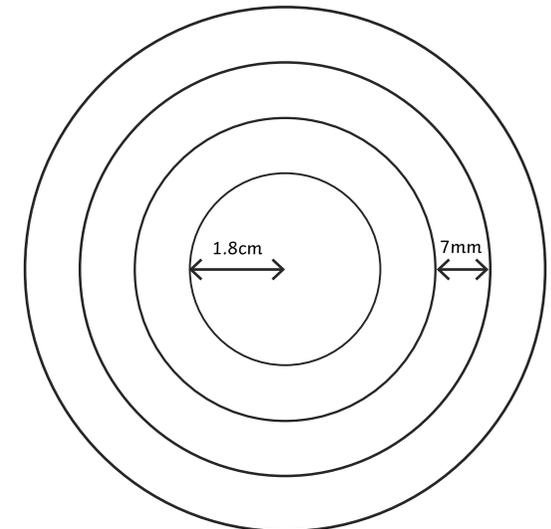
21cm

Radius = _____cm

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.

Distance = _____cm

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.

1.8cm   7mm

Diameter = _____cm
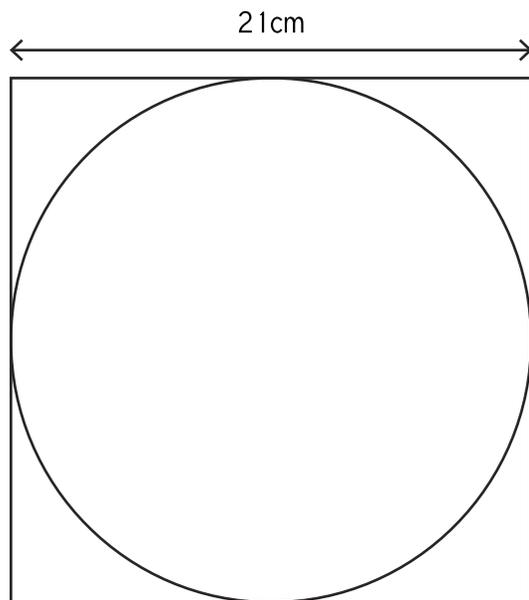
Circle Reasoning **Answers**

I can solve reasoning questions about knowing that the radius is twice the diameter.

Work with your partner to discuss and solve these reasoning questions.

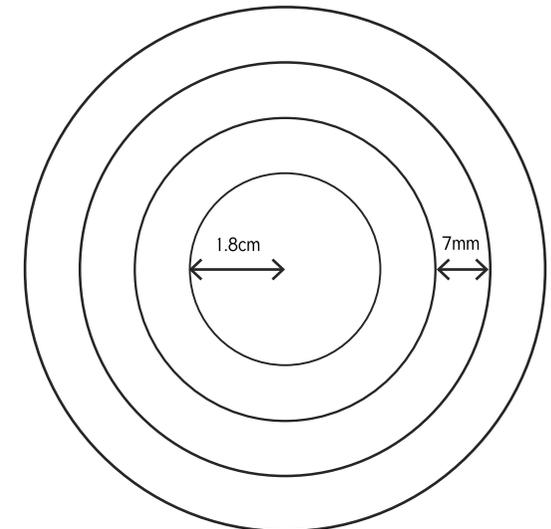|		
Question 1 This design is made up of a circle inside a square. Calculate the radius of the circle.	**Question 2** The bicycle travelled from the swings to the slide turning its wheels 10 times. The circumference of the bicycle wheels is 97cm. Calculate the distance from the swings to the slide.	**Question 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.

Question 1 — 21cm

Radius = 10.5cm

Distance = 970 cm or 9.7m

1.8cm   7mm

Diameter = 3.9cm