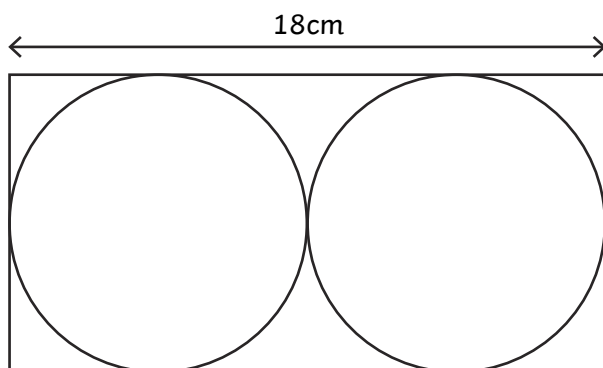# Circle Reasoning

I can solve reasoning questions knowing that the diameter of a circle is twice the radius.

Solve these reasoning questions.

Question 1

This design is made up of 2 identical circles and a rectangle. Calculate the radius of the circles.

18cm

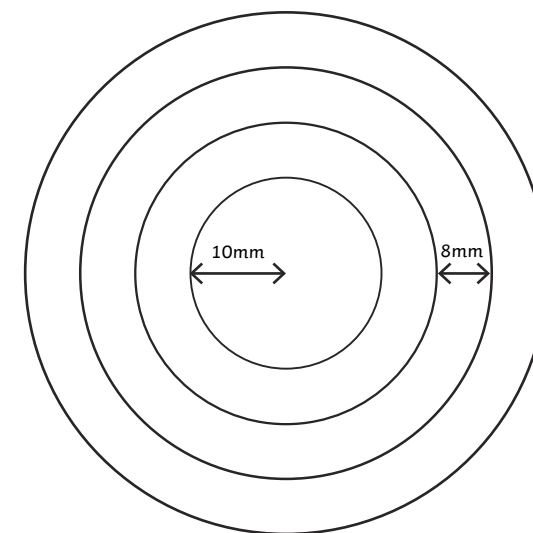Radius = _____cm

Question 2

The scooter travelled from the tree to the pond turning its wheels 25 times. The circumference of the bicycle wheel is 20cm. Calculate the distance from the tree to the pond.

Distance = _____m

Question 3

Calculate the diameter of the largest circle:

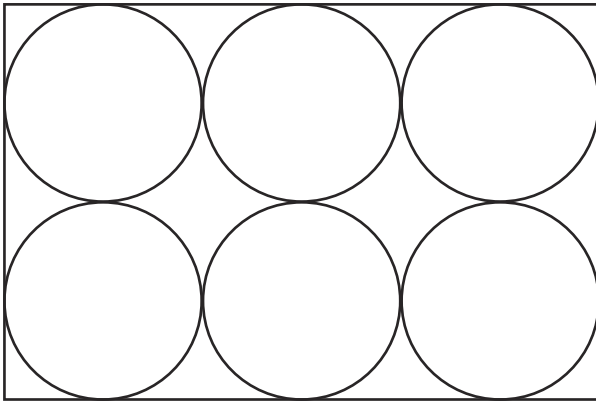10mm   8mm

Diameter = _____cm

Circle Reasoning

I can solve reasoning questions knowing that the diameter of a circle is twice the radius.

Solve these reasoning questions.

Question 1

This design is made up of six circles, each with a radius of 14cm, inside a rectangle. Calculate the length and width of the rectangle.
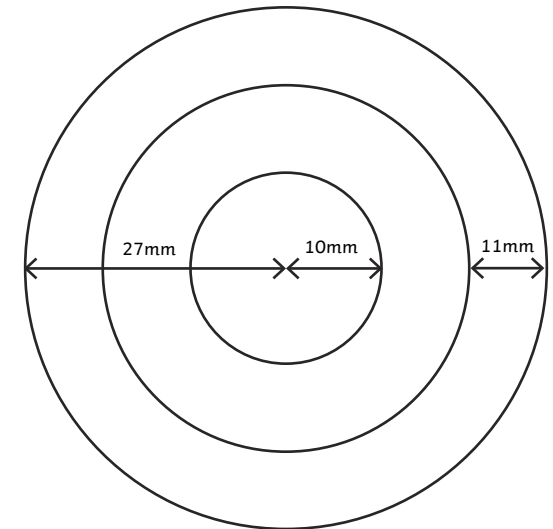
Length = _____cm Width = _____cm

Question 2

The unicycle travelled from the sea lion to the clown turning its wheel 50 times. The circumference of the unicycle wheel is 1.43m. Calculate the distance from the seal to the clown.

Distance = _____m

Question 3

Calculate the diameter of the second circle:

27mm   10mm   11mm

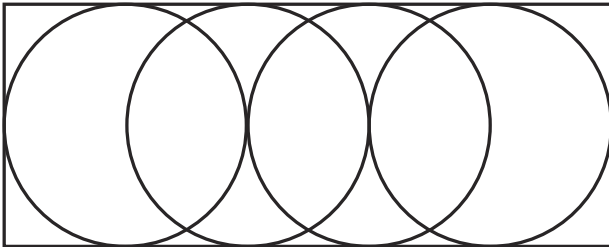Diameter = _____cm

Circle Reasoning

I can solve reasoning questions knowing that the diameter of a circle is twice the radius.
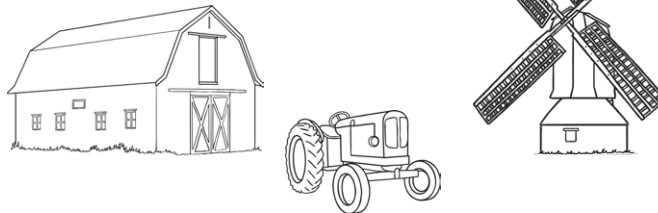
Solve these reasoning questions.

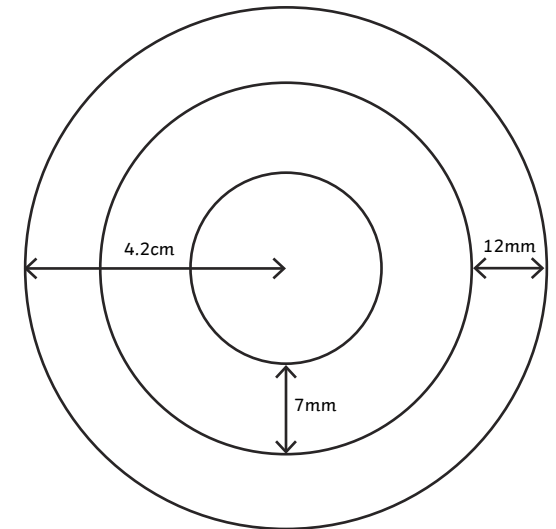| Question 1	Question 2	Question 3
This design is made up of four intersecting circles. Each circle has a diameter of 9cm. Calculate the length, width and area of the rectangle.	The tractor travelled from the barn to the windmill turning its wheels 75 times. The circumference of the big tractor wheel is 2.05m. Calculate the distance from the farm to the field.	Calculate the diameter of the smallest circle:

Question 3 labels: 4.2cm, 12mm, 7mm

Area = _____cm²

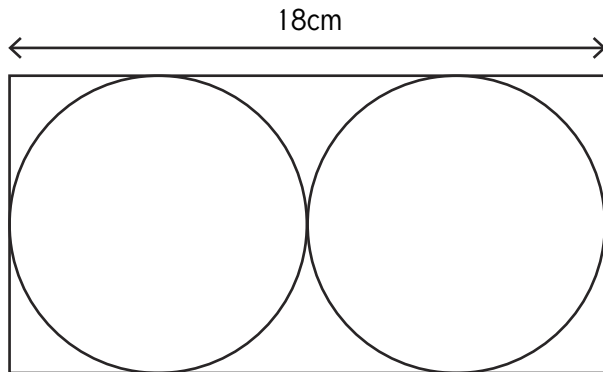Distance = _____m

Diameter = _____cm

Circle Reasoning **Answers**

I can solve reasoning questions knowing that the diameter of a circle is twice the radius.

Solve these reasoning questions.

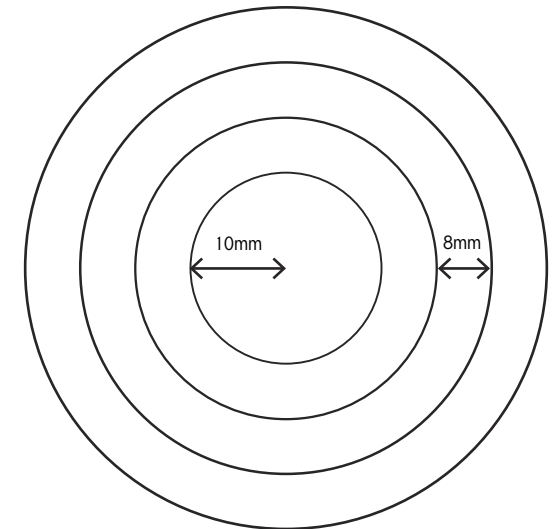| Question 1	Question 2	Question 3
This design is made up of 2 identical circles and a rectangle. Calculate the radius of the circles.	The scooter travelled from the tree to the pond turning its wheels 25 times. The circumference of the bicycle wheel is 20cm. Calculate the distance from the tree to the pond.	Calculate the diameter of the largest circle:

Question 1

18cm

Radius = 4.5cm

Question 2

Distance = 5m

Question 3
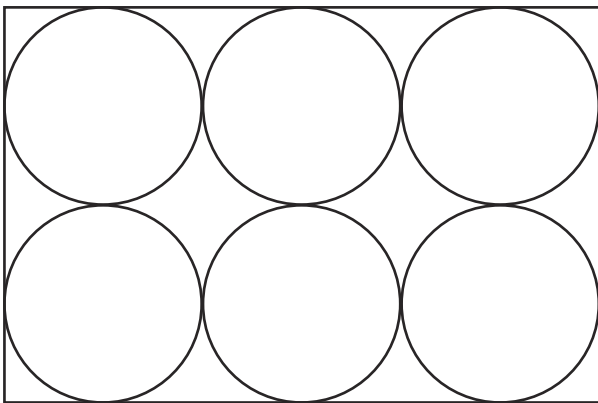
10mm   8mm

Diameter = 6.8cm

Circle Reasoning **Answers**

I can solve reasoning questions knowing that the diameter of a circle is twice the radius.

Solve these reasoning questions.

Question 1

This design is made up of six circles, each with a radius of 14cm, inside a rectangle. Calculate the length and width of the rectangle.

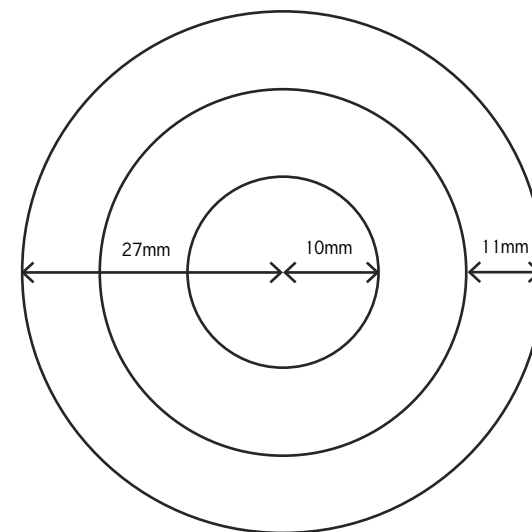Length = 84cm   Width = 56cm

Question 2

The unicycle travelled from the sea lion to the clown turning its wheel 50 times. The circumference of the unicycle wheel is 1.43m. Calculate the distance from the seal to the clown.

Distance = 71.5m

Question 3

Calculate the diameter of the second circle:
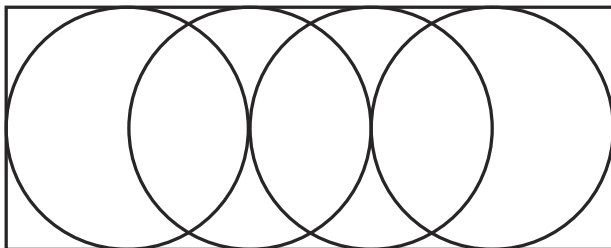

27mm   10mm   11mm

Diameter = 3.2cm

Circle Reasoning **Answers**

I can solve reasoning questions knowing that the diameter of a circle is twice the radius.

Solve these reasoning questions.

Question 1

This design is made up of four intersecting circles. Each circle has a diameter of 9cm. Calculate the length, width and area of the rectangle.
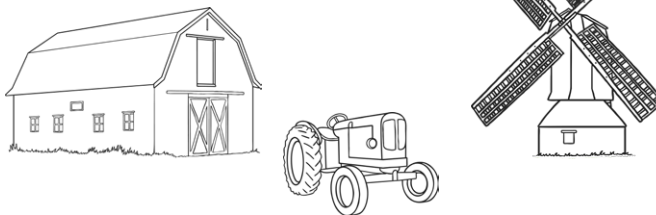

Width = 9cm

Length = 22.5cm
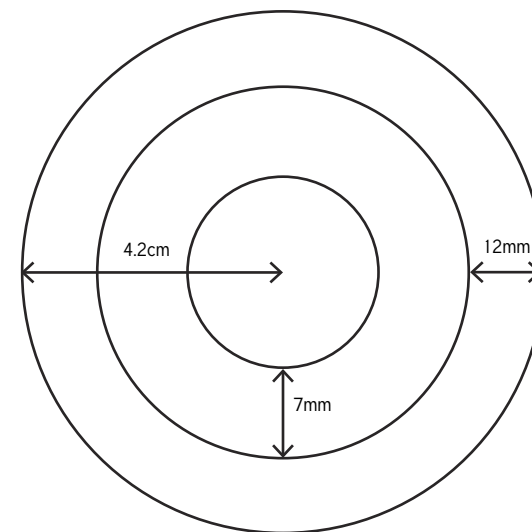
Area = 202.5cm²

Question 2

The tractor travelled from the barn to the windmill turning its wheels 75 times. The circumference of the big tractor wheel is 2.05m. Calculate the distance from the farm to the field.

Distance = 153.75m

Question 3

Calculate the diameter of the smallest circle:

4.2cm   12mm

7mm

Diameter = 4.6cm