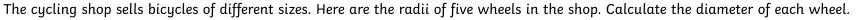
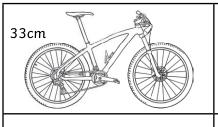
## Circle Algebra Extra Challenge

I can calculate the diameter, radius and circumference of a circle.





Radius = 33cm

Diameter = \_\_\_\_\_



Radius = 37cm

Diameter = \_\_\_\_\_



Radius = 41cm

Diameter = \_\_\_\_\_



Radius = 45cm

Diameter = \_\_\_\_\_



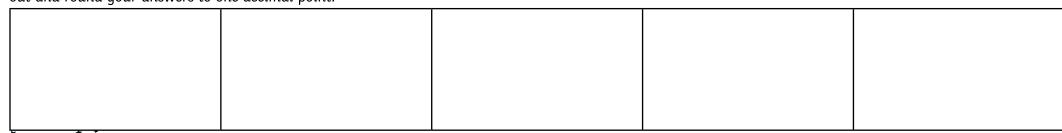
Radius = 49cm

Diameter = \_\_\_\_\_

Calculate the circumference of each wheel in metres using the formula **diameter** × **3.142** = **circumference**. Show you working out and your answer in metres, e.g. 5.03m.

| Circumference = |
|-----------------|-----------------|-----------------|-----------------|-----------------|
|                 |                 |                 |                 |                 |
|                 |                 |                 |                 |                 |

Calculate how many times each wheel turns travelling over a **distance of 25m** using the formula **25m** ÷ **circumference** = **number of turns**. Show your working out and round your answers to one decimal point.



## Circle Algebra Extra Challenge Answers

I can calculate the diameter, radius and circumference of a circle.







Radius = 33cm

Diameter = 66cm



Radius = 37cm

Diameter = 74cm



Radius = 41cm

Diameter = 82cm



Radius = 45cm

Diameter = 90cm



Radius = 49cm

Diameter = 98cm

Calculate the circumference of each wheel in metres using the formula diameter  $\times$  3.142 = circumference. Show you working out and your answer in metres, e.g. 5.03m.

| Circumference = |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| 2.07m           | 2.33m           | 2.58cm          | 2.83cm          | 3.08cm          |
|                 |                 |                 |                 |                 |

Calculate how many times each wheel turns travelling over a distance of 25m using the formula 25m ÷ circumference = number of turns. Show your working out and round your answers to one decimal point.

12.1 turns	10.8 turns	9.7 turns	8.8 turns	8.1 turns