**Task One: Measure**

Choose a circular object

* Measure the circumference as accurately as possible (e.g. 17.3 cm)
* Measure the diameter as accurately as possible
* Record your information in the table

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| **Object** | **Circumference** | **Diameter** |  |  |
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| *The equator* | *40,075 km* | *12,750 km* |  |  |
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**Task Two**

When you have filled up the table with objects and their measurements:

* Label the fourth column ‘C ÷ d’
* Use a calculator to work out circumference ÷ diameter for each circle. Write down all the figures on the display
* Label the final column ‘C ÷ d to 2 d.p.’
* Round each value to 2 decimal places

**Task Three**

* Look for a pattern in your results. Write about what you notice.
* Find the mean of your ‘C ÷ d to 2 d.p.’ results
* Write down a connection between the circumference and the diameter
* Write down a formula that connects C and d
* Measure the diameter of the bike wheel. Use this to **work out** the circumference.

