

1.

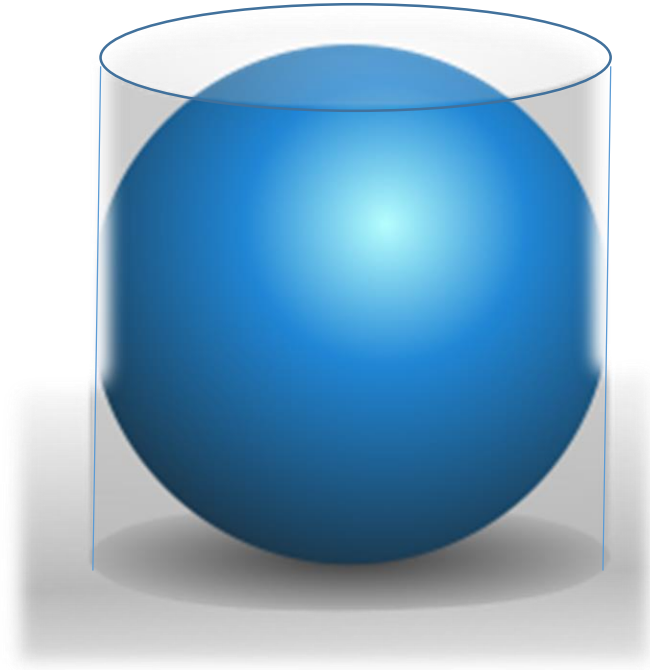
A ball inside a cylinder!

This is a very old problem – Archimedes solved it more than 2,000 years ago. See if you can find out the answer!

It is possible to calculate the answer but that is a big challenge!

Imagine putting a ball inside a cylinder or barrel so that it fits perfectly. You have to imagine that the width (diameter) of the ball is exactly the same as the width of the barrel and the height of the barrel.

What fraction of the space inside the barrel is filled by the ball?



2.

A Famous Bridge



Where in the world is this bridge and what is it called?

What sort of bridge is it?

3.

What is this machine and how does it help us make sandwiches?



4.

What is this thing?



5.



What is this yellow thing called and what is it used for?

6.

Why it might be better to use these



In a city to help people to get to work, compared to these?

