...of an object

A start s

- 1) Measure mass of object mass = 9.78g
 - 2) Partially fill cylinder with liquid, record volume.
 - volume = 25.0 mL

- 3) Put object into cylinder, record new volume volume 726.6 ml
- 4) Subtract to find volume of object
 - 26.6 mL 25.0 mL

1.6

5) Density = mass object / volume object 9.78 g Density =

mL



mL

1.6

Converting from one unit to another

We will use the method of dimensional analysis, sometimes called the factor-label method.... or, the "drag and drop" method!

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Dimensional analysis uses conversion factors to change between one unit and another

What's a conversion factor? A simple equality.

xample

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Conversion factors in metric

In the metric system, conversion factors between units may always be made from the metric prefixes!











Even though English units are involved, we can solve this problem the same way we solved the previous problem where only metric units were used!