MEASURING VOLUME OF LIQUIDS

MED 01.03



Material:

Item-no.	Qty.	Description
C1580-1B	1	Measuring cylinder 100 ml, glass
DG110-1B	1	Measuring beaker, plastic, 1000 ml
P7050-1A	1	Powder dye, red
P7100-1A	1	Cord, roll, high tensile strength
		Water

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Purpose
Determination of liquid volumes - practice in scale reading

Experiment
Fill the measuring jug with approximately 150–200 ml of water.

Add a little coloured powder to the water in the measuring jug and stir it in. This gives the water in the measuring jug a slight colour, making it easier to read the level.

Try to read the volume of the water and determine it as accurately as possible.

We now transfer the coloured water from the measuring jug into the measuring cylinder. First 20 ml, then 78 ml and finally 100 ml of water.

Once again, we try to read the volume of the water and determine it as accurately as possible. Care must be taken to ensure the correct reading on the measuring cylinder's scale.

In which container can the volume of water be determined more accurately – in the measuring jug or in the measuring cylinder?

The volume can be measured more accurately using a measuring cylinder.

Why is that?

The diameter of the measuring cylinder is considerably smaller, which is why the graduations are also much finer.

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