

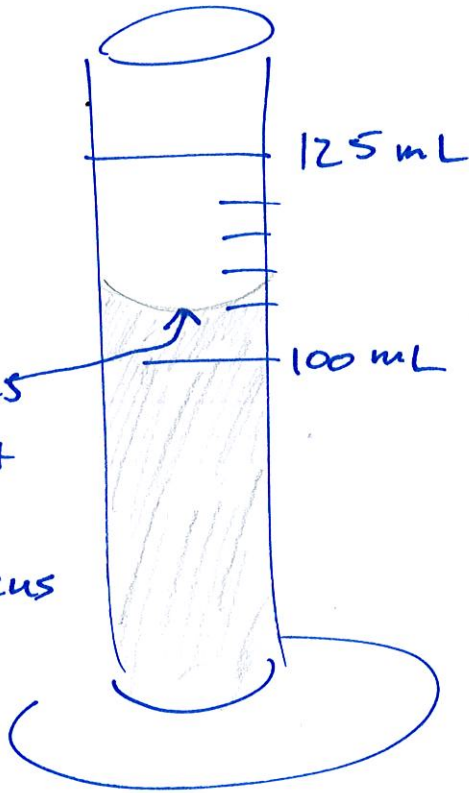
How To Read A Graduated Cylinder

$$\begin{array}{r} 125 \\ -100 \\ \hline 25 \text{ mL} \end{array}$$

↓
} $25 \text{ mL} \div 5 \text{ sections} = 5 \text{ mL}$

each section is worth
5 mL

meniscus
read at
bottom
of
meniscus



there is 105 mL of liquid
in this graduated
cylinder!

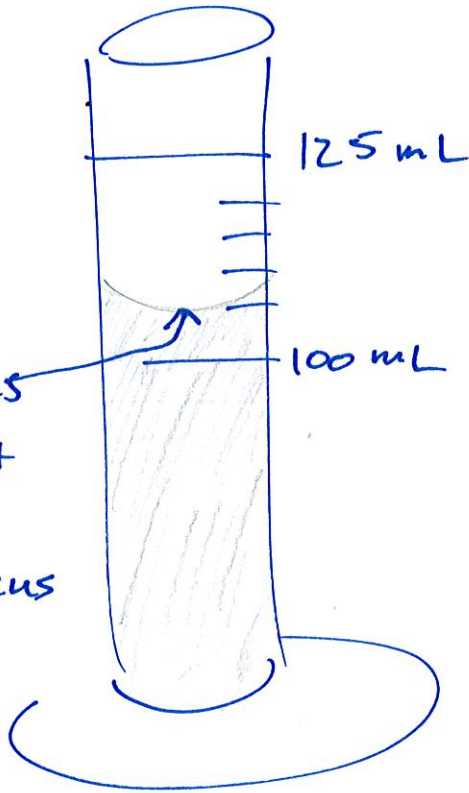
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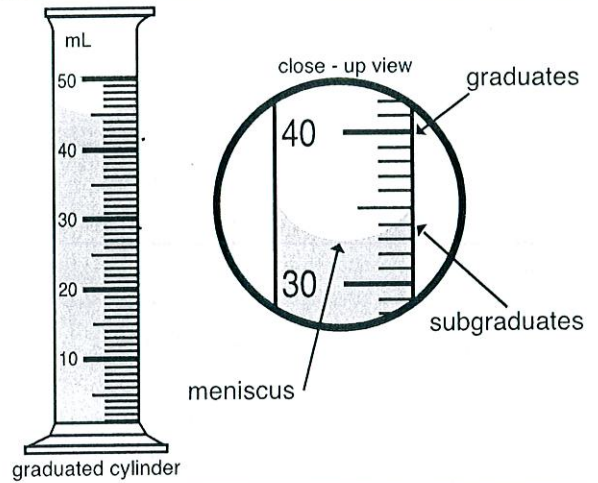
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GRADUATED CYLINDERS

Graduated cylinders are used to measure the volume of liquids. Measuring liquids in graduated cylinders can be tricky because the liquid surface is curved.

This curved surface is called the **meniscus**. A meniscus forms because the liquid molecules are more strongly attracted to the container than to each other.

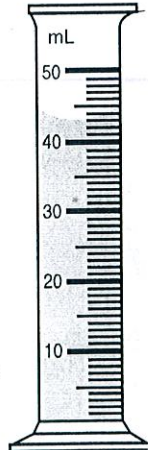
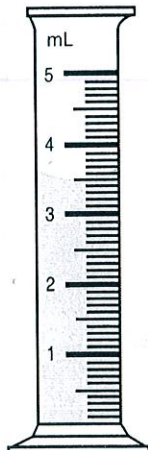
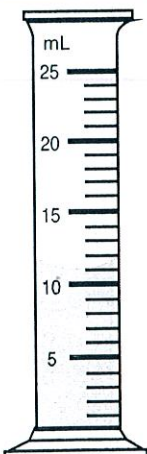
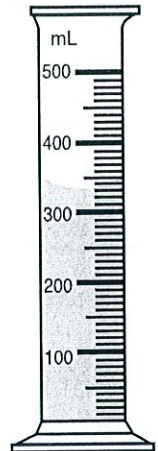
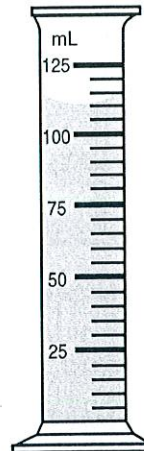
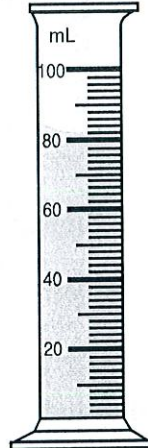
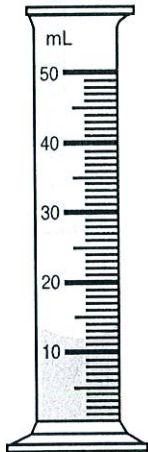
To properly measure the volume of a liquid in a graduated cylinder you must be at eye-level and read the bottom point of the meniscus.



1. Measure the amount of liquid in the graduated cylinder
2. Record the measurement below. Remember to include mL in your answer.

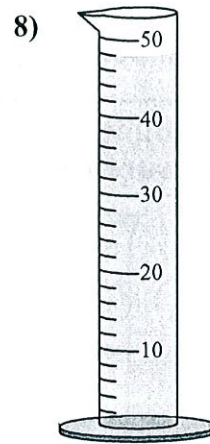
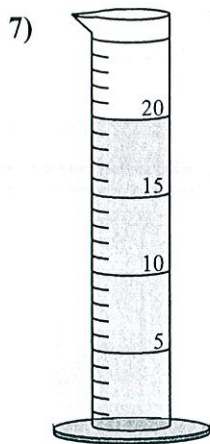
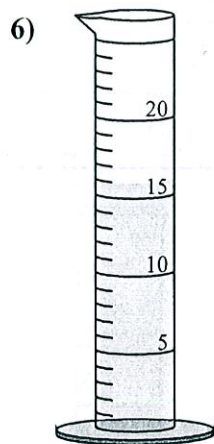
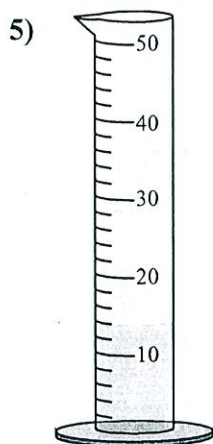
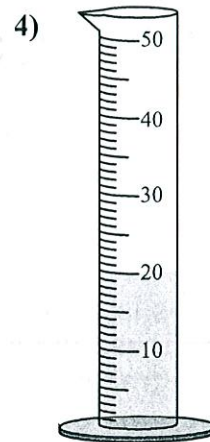
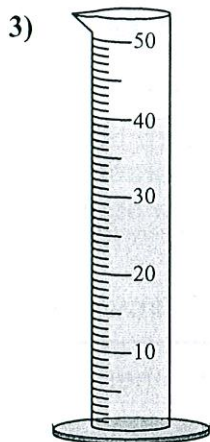
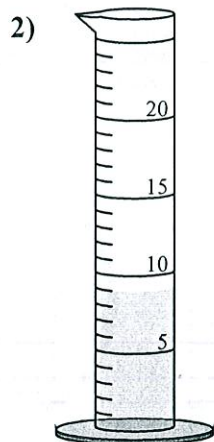
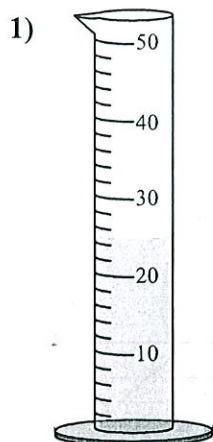


4.5 mL





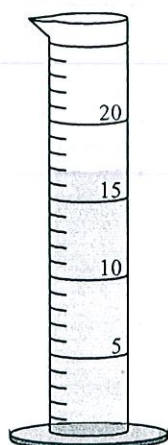
Determine how much liquid is in each graduated cylinder.



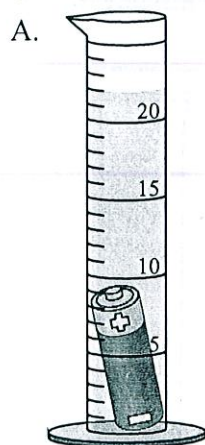
Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

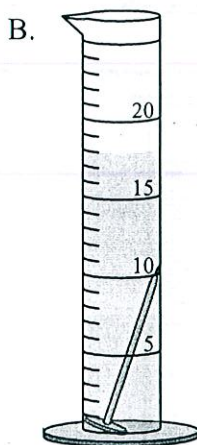
Four different objects were placed in a graduated cylinder 1 at a time:



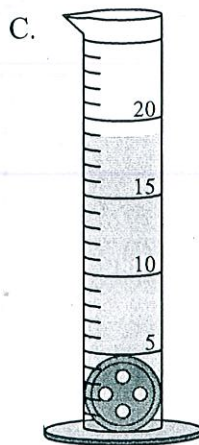
Empty



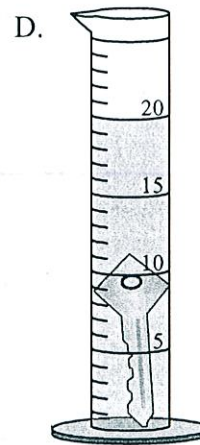
battery



nail



button



key

4.2 ml

- 9) Which object had the greatest volume?
- 10) Which object had the least volume?