MEASURING VOLUME

1 Some water is poured into four tubes of different cross-sectional areas.

Which tube contains the largest volume of water?



2 The diagrams show an experiment to determine the volume of a stone.



3 Diagram 1 shows a measuring cylinder containing water.

Five identical steel balls are now lowered into the measuring cylinder. Diagram 2 shows the new water level in the cylinder.



4 A scientist needs to determine the volume of a small, irregularly shaped rock sample. Only a rule and a measuring cylinder, partially filled with water, are available.



cylinder

To determine the volume, which apparatus should the scientist use?

- A both the measuring cylinder and the rule
- **B** neither the measuring cylinder nor the rule
 - the measuring cylinder only
- D the rule only

5 Drops of water are dripping steadily from a tap (faucet). The diagram shows a measuring cylinder which has collected 120 drops of water.







Which quantity is the same for both cylinders?



- B mass
- **C** resistance
- D volume

8 The diagram shows a measuring cylinder used to measure the volume of a small stone.

