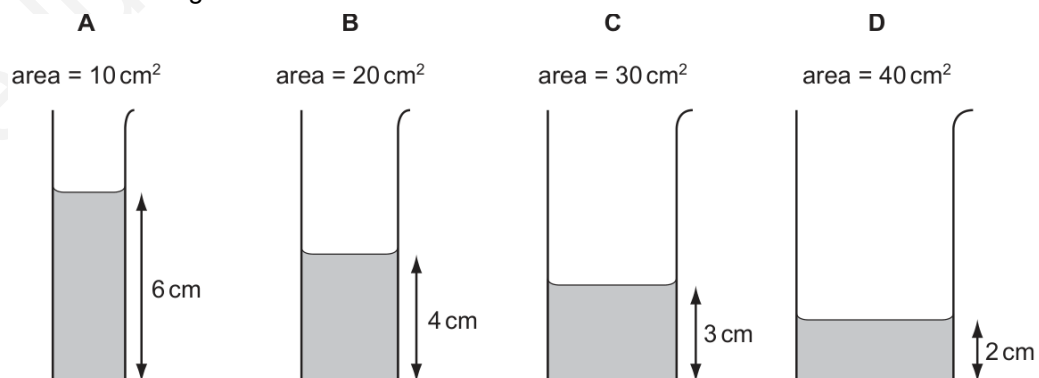


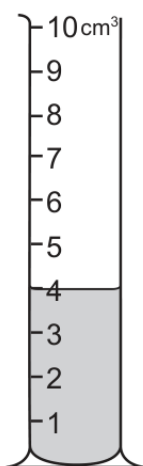
Smart Exam Resources
0625 / 0972 (9-1) IGCSE Physics
MEASURING VOLUME

- 1 Some water is poured into four tubes of different cross-sectional areas. Which tube contains the largest volume of water?

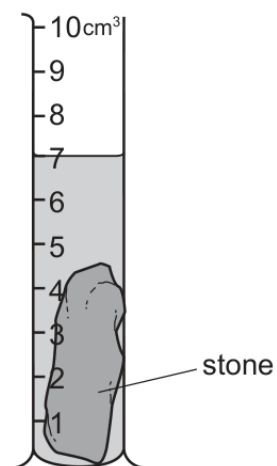


- 2 The diagrams show an experiment to determine the volume of a stone.

without stone



with stone



What is the volume of the stone?

A 3 cm^3

B 4 cm^3

C 7 cm^3

D 11 cm^3

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.

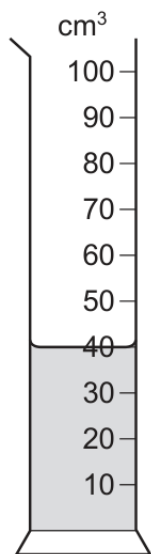


diagram 1

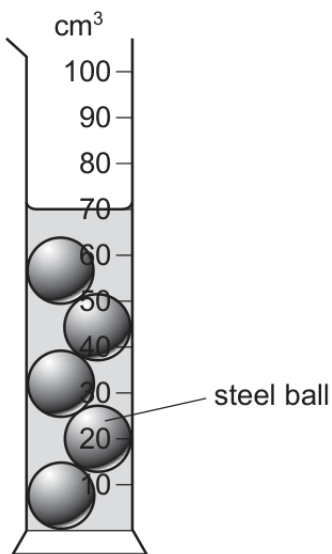


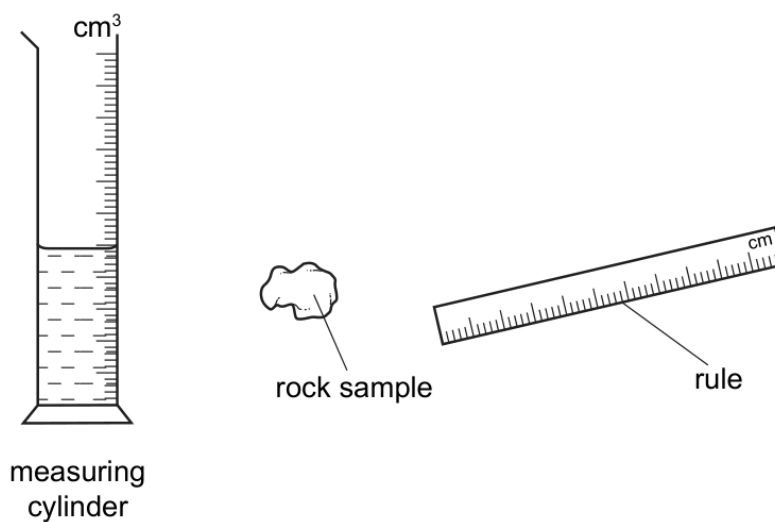
diagram 2

What is the volume of each steel ball?

A 6 cm³B 14 cm³C 30 cm³D 70 cm³

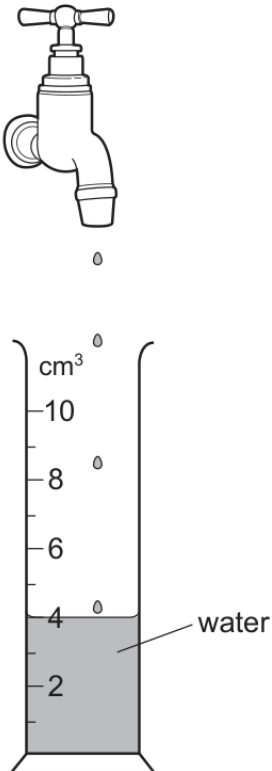
4

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.



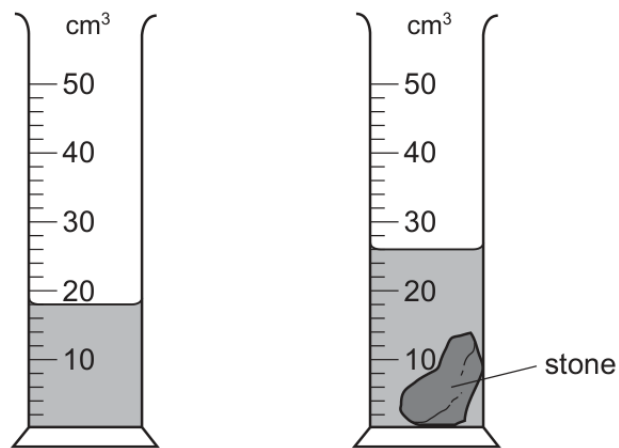
To determine the volume, which apparatus should the scientist use?

- A both the measuring cylinder and the rule
- B neither the measuring cylinder nor the rule
- C 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.  How many drops in total will have been collected when the measuring cylinder reads 10 cm³? A 48 B 60 C 180 D 300
6	A stone has a volume of 0.50 cm³ and a mass of 2.0 g. What is the density of the stone? A 0.25 g / cm³ B 1.5 g / cm³ C 2.5 g / cm³ D 4.0 g / cm³
7	Two cylinders are made of the same metal. Both cylinders have the same cross-sectional area but one is longer than the other. Which quantity is the same for both cylinders? A density B mass C resistance D volume

8

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



What is the volume of the stone?

A 8 cm³

B 9 cm³

C 14 cm³

D 26 cm³