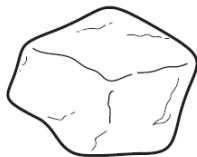


1. June/2021/Paper_11&21/No.1

The diagram shows a stone of irregular shape.



Which property of the stone can be found by lowering it into a measuring cylinder half-filled with water?

- A length
- B mass
- C volume
- D weight

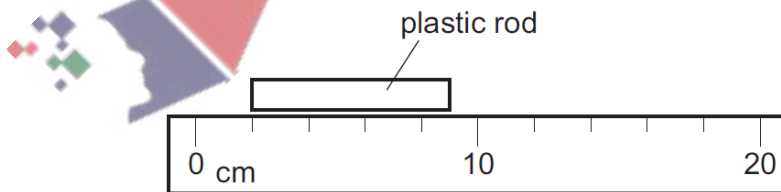
2. June/2021/Paper_12&22/No.1

Which piece of apparatus is the most suitable for measuring the mass of a pencil sharpener?

- A digital balance
- B measuring cylinder
- C newton meter
- D ruler

3. June/2021/Paper_13&23/No.1

The diagram shows a plastic rod alongside a ruler.



What is the length of the rod?

- A 2.5 cm
- B 3.5 cm
- C 7.0 cm
- D 9.0 cm

4. **March/2021/Paper_12&22/No.1**

A student has a measuring cylinder containing water and also has a balance.

Which of these could she use to find the volume of a small metal sphere?

She has no other apparatus.

- A either the measuring cylinder containing water or the balance
- B the measuring cylinder containing water only
- C the balance only
- D neither the measuring cylinder nor the balance

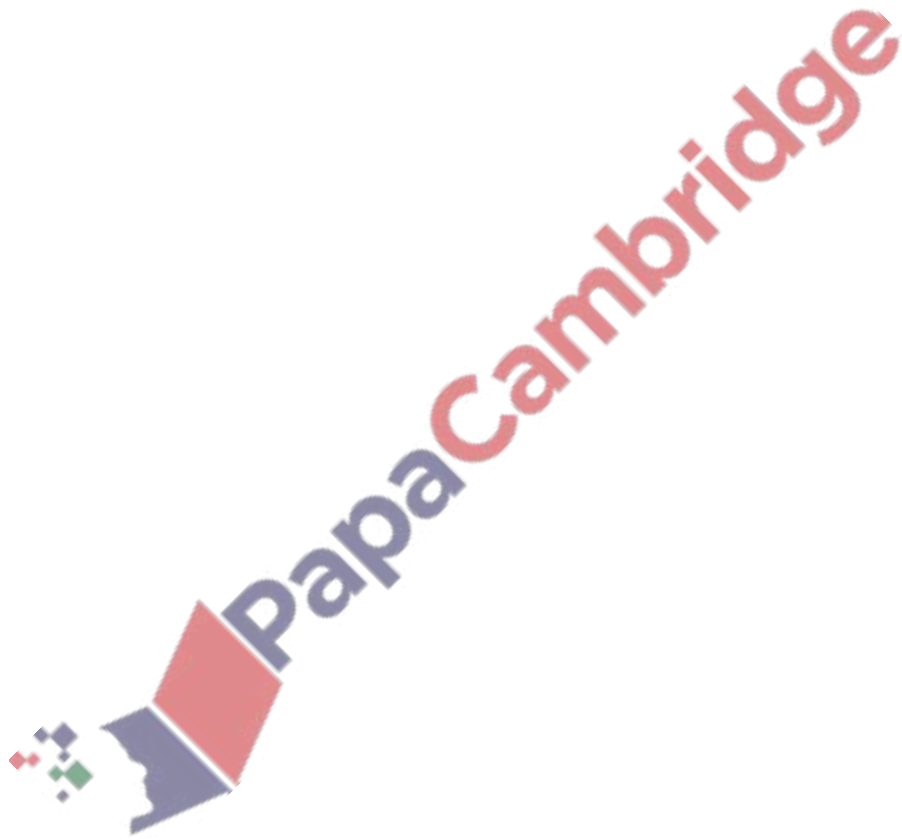


Fig. 1.1 shows the core of a transformer. It is made from thin sheets of iron.

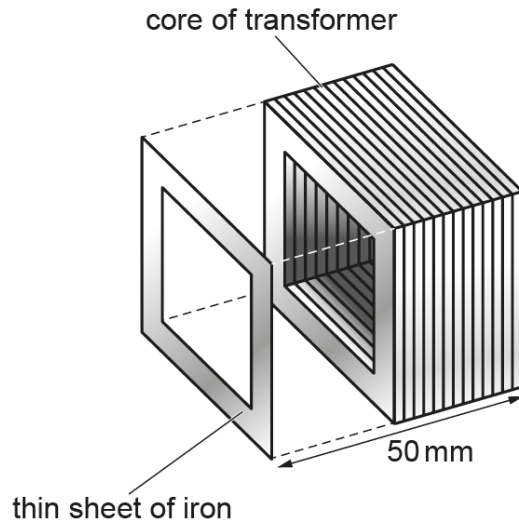


Fig. 1.1 (not to scale)

- (a) There are 200 sheets of iron in the core of the transformer. The thickness of the core is 50 mm. Calculate the average thickness of **one** sheet of iron.

average thickness of one sheet = mm [3]

- (b) The density of the iron in the core is 7.65 g/cm^3 . The mass of the core is 1377 g. Calculate the volume of the core.

volume = cm^3 [3]

- (c) State the name of a device used to measure mass.

..... [1]

[Total: 7]