



IGCSE-Physics

Worksheet-1 (Measurements)-P2

Instructions for Multiple choice:

- Choose the one you consider correct.
- Any rough working should be done in this booklet.
- Electronic calculators may be used

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Q1)

A pendulum makes 50 complete swings in 2 min 40 s.

What is the time period for 1 complete swing?

- A** 1.6 s **B** 3.2 s **C** 4.8 s **D** 6.4 s

Q2)

Five athletes P, Q, R, S and T compete in a race. The table shows the finishing times for the athletes.

athlete	P	Q	R	S	T
finishing time / s	22.50	24.40	25.20	26.50	23.20

Which statement is correct?

- A** Athlete P won the race and was 0.70 s ahead of the athlete in second place.
B Athlete P won the race and was 1.90 s ahead of the athlete in second place.
C Athlete S won the race and was 1.30 s ahead of the athlete in second place.
D Athlete S won the race and was 2.10 s ahead of the athlete in second place.

Q3)

Diagram 1 shows a solid, rectangular-sided block.

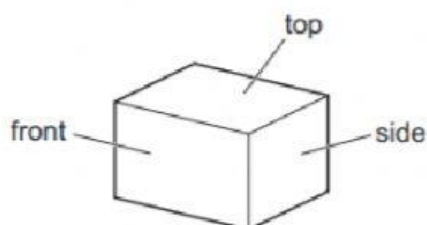


diagram 1

Diagram 2 shows the same block from the front and from the side.

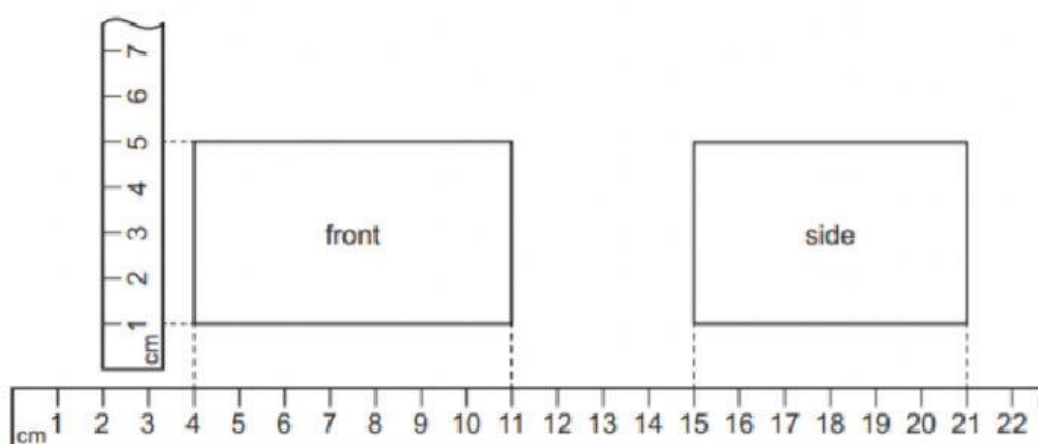


diagram 2

Metre rules have been shown close to the edges of the block.

What is the volume of the block?

- A** 120 cm^3 **B** 168 cm^3 **C** 264 cm^3 **D** 1155 cm^3

Q4)

Which is the best apparatus to use to measure the thickness of a coin?

- A** balance
- B** ruler with a millimetre scale
- C** micrometer screw gauge
- D** pressure gauge

Q5)

A student measures the dimensions of a cylindrical glass beaker.

For which measurement should she use a micrometer screw gauge?

- A** circumference of the beaker
- B** diameter of the beaker
- C** height of the beaker
- D** thickness of the glass wall of the beaker

Q6)

A student measures the diameter of a pencil.

Which measuring instrument will give the most precise reading?

- A** a measuring tape
- B** a metre rule
- C** a micrometer screw gauge
- D** a ruler

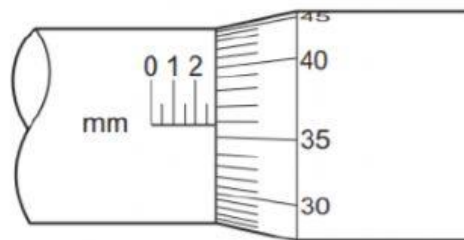
Q7)

Which quantity can be measured directly using a micrometer screw gauge?

- A** the area of a sheet of paper
- B** the mass of a sheet of paper
- C** the thickness of a sheet of paper
- D** the volume of a sheet of paper

Q8)

The diagram shows part of a micrometer screw gauge.

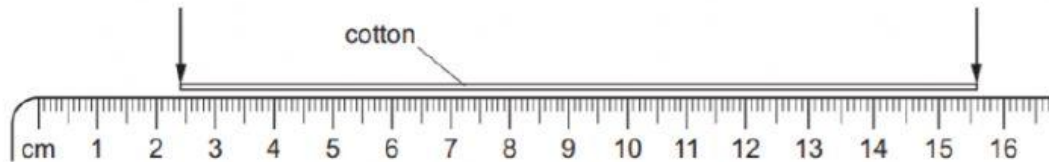


What is the smallest reading that can be achieved using this micrometer screw gauge?

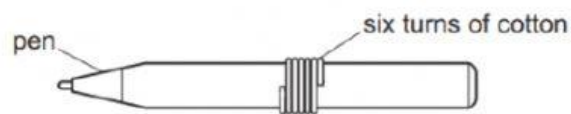
- A** 0.0001 mm
- B** 0.01 mm
- C** 0.1 mm
- D** 1 mm

Q9)

A length of cotton is measured between two points on a ruler.



When the length of cotton is wound closely around a pen, it goes round six times.

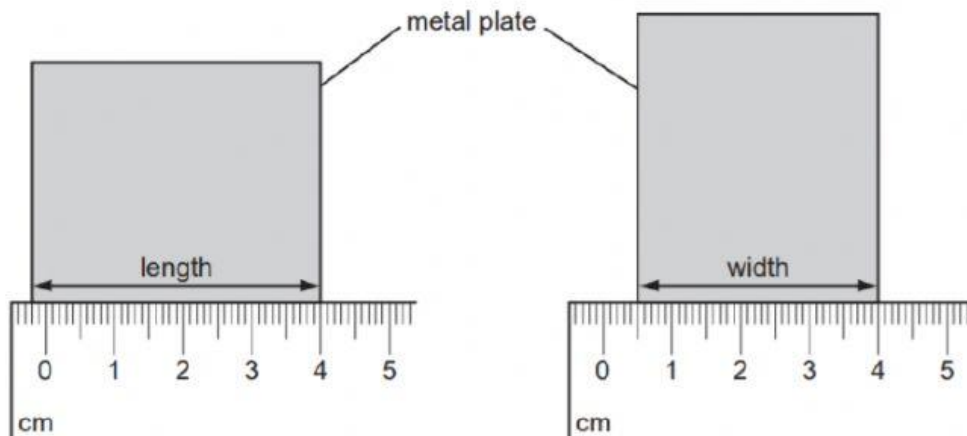


What is the distance once round the pen?

- A** 2.2 cm **B** 2.6 cm **C** 13.2 cm **D** 15.6 cm

Q10)

A student uses a ruler to measure the length and the width of a small rectangular metal plate.



What is the area of the plate?

- A** 14.0 cm^2 **B** 14.7 cm^2 **C** 16.0 cm^2 **D** 16.8 cm^2