



# 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.

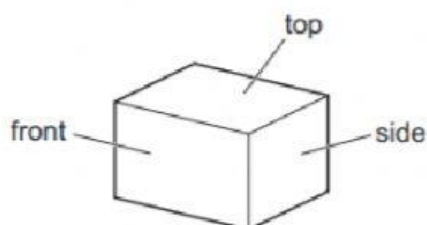


diagram 1

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

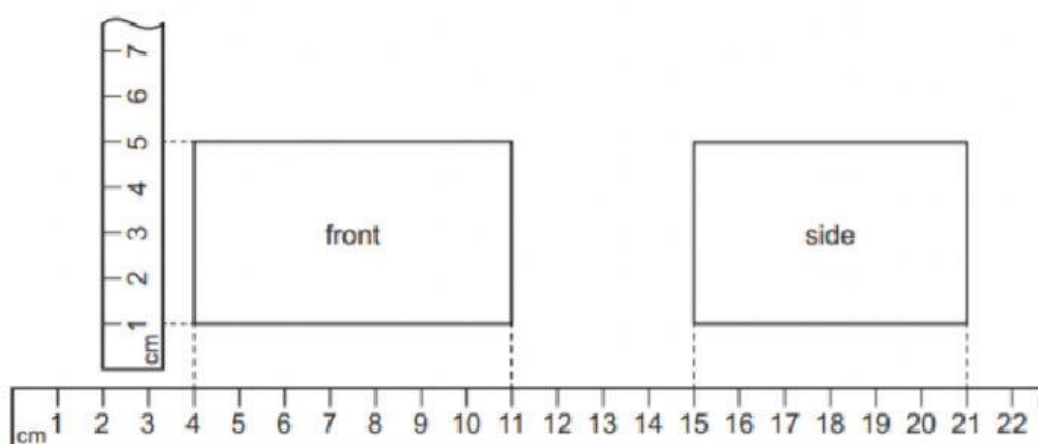


diagram 2

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

What is the volume of the block?

- A**  $120 \text{ cm}^3$       **B**  $168 \text{ cm}^3$       **C**  $264 \text{ cm}^3$       **D**  $1155 \text{ cm}^3$

**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

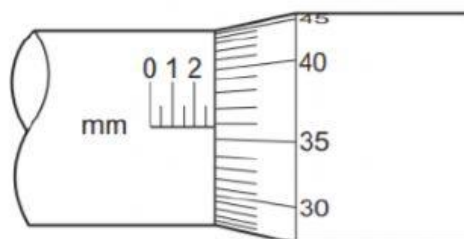
**Q7)**

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.

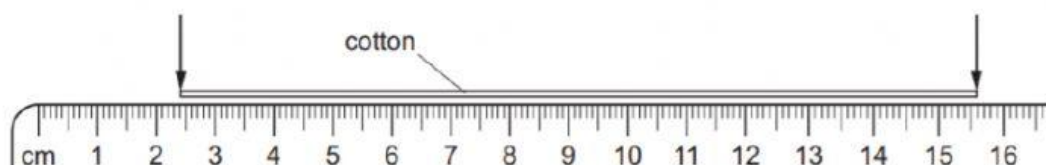


What is the smallest reading that can be achieved using this micrometer screw gauge?

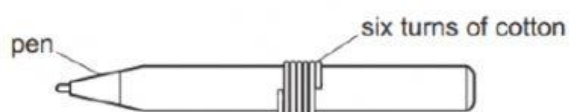
- A** 0.0001 mm
- B** 0.01 mm
- C** 0.1 mm
- D** 1 mm

## 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.

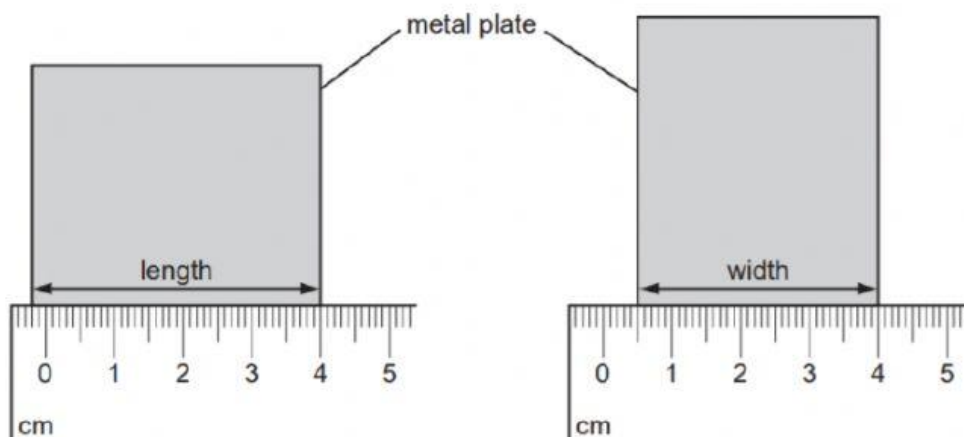


What is the distance once round the pen?

- 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**  $14.0 \text{ cm}^2$       **B**  $14.7 \text{ cm}^2$       **C**  $16.0 \text{ cm}^2$       **D**  $16.8 \text{ cm}^2$