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)

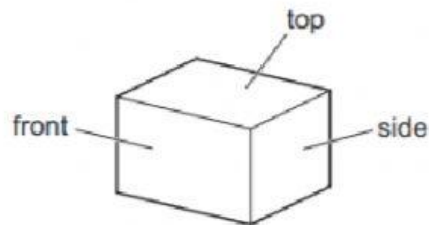Diagram 1 shows a solid, rectangular-sided block.

diagram 1

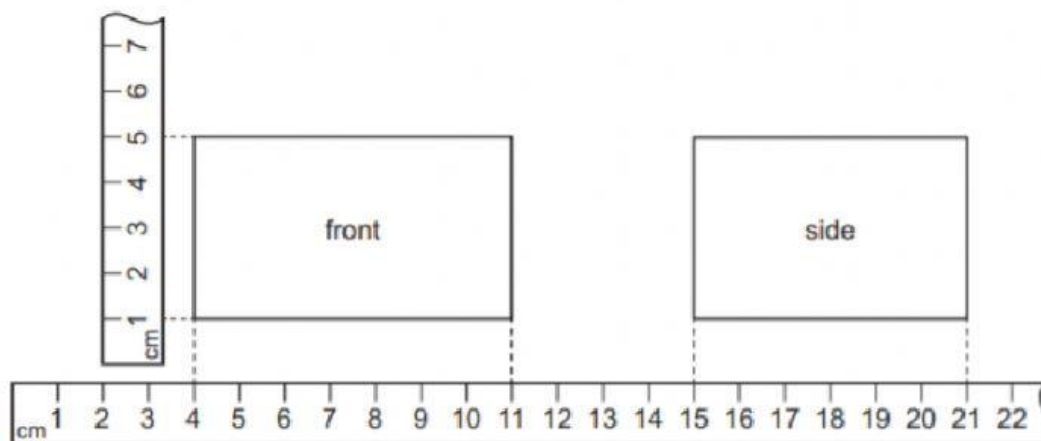Diagram 2 shows the same block from the front and from the side.

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

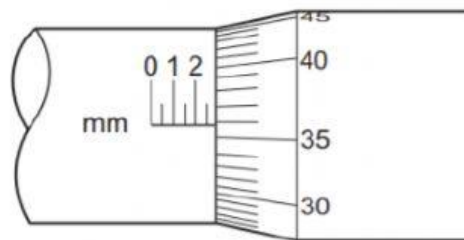## Q7)

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

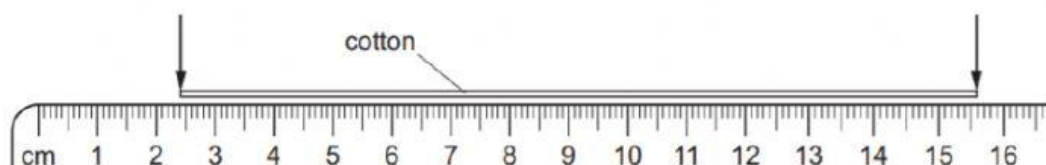## Q8)

The diagram shows part of a micrometer screw gauge.

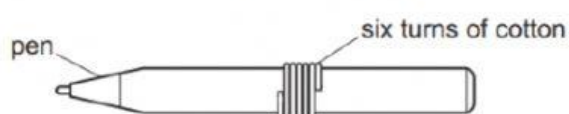What is the smallest reading that can be achieved using this micrometer screw gauge?

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.

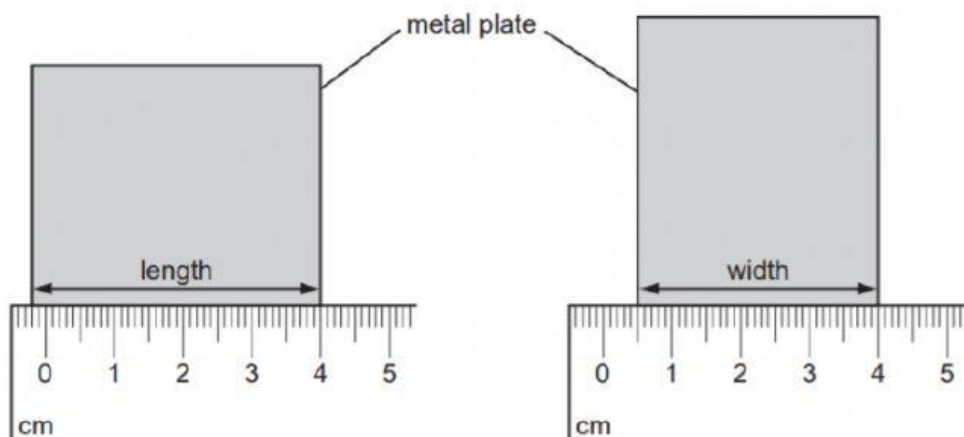When the length of cotton is wound closely around a pen, it goes round six times.

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 cm² **B** 14.7 cm² **C** 16.0 cm² **D** 16.8 cm²