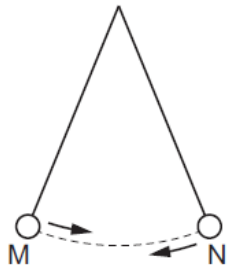
Physical Quantities – 2020 IGCSE 0625

1. Nov/2020/Paper_11/No.1

The diagram shows a pendulum. The pendulum bob swings repeatedly between points M and N.



A student starts a stop-watch when the bob reaches point M.

He counts each time the bob changes direction and stops the watch on the tenth change in direction.

The watch shows a time of 12.0 seconds.

What is the period of the pendulum?

A 0.60 s **B** 1.2 s **C** 2.4 s **D** 12.0 s

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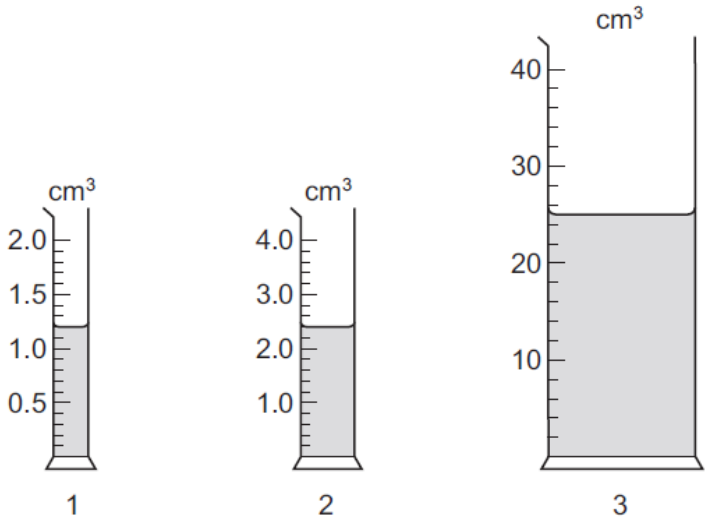
2. Nov/2020/Paper_12/No.1

A student measures the volumes of three liquids using three different measuring cylinders.



The table shows the volumes recorded by the student.

measuring cylinder	volume / cm^3
1	1.2
2	2.2
3	25

Which readings are correctly recorded?

A 1, 2 and 3 **B** 1 and 2 only **C** 1 and 3 only **D** 1 only

3. Nov/2020/Paper_13/No.1

A student uses a metre rule to measure the length of a sheet of paper.

Which measurement is shown to the nearest millimetre?

A 0.3 m **B** 0.29 m **C** 0.293 m **D** 0.2932 m

4. Nov/2020/Paper_21/No.1

For which one of the following measurements would a micrometer screw gauge be most suitable?

A length of this page

B length of a pencil

C diameter of a wire

D diameter of an atom

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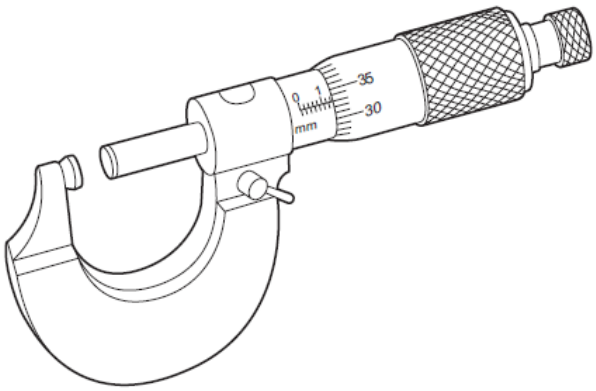
5. Nov/2020/Paper_22/No.1

The diagram shows a measuring device.



For which measurement is this device suitable?

A diameter of a cylinder of aluminium of about 20 cm

B distance between two molecules of zinc

C length of a rod of iron of about 1 m

D thickness of a sheet of copper of about 1.5 mm

6. Nov/2020/Paper_23/No.1

A micrometer screw gauge reads 0.02 mm when the jaws are fully closed. It reads 0.56 mm when measuring the diameter of a metal wire.

What is the diameter of the wire?

A 0.36 mm **B** 0.54 mm **C** 0.56 mm **D** 0.58 mm

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7. Nov/2020/Paper_43/No.3(a)

(a) **(i)** Speed is a scalar quantity.

State **one** other scalar quantity.

..... [1]

(ii) Velocity is a vector quantity.

State **one** other vector quantity.

..... [1]

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