

Subject: Science/Physics

Class: Grade 9 Extended

Worksheet 1

Name.....

1 Put a circle around the correct answer.

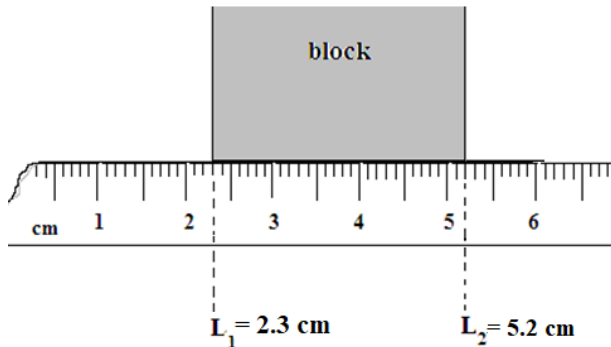
(a) What is the SI unit of length?

- A metre B centimetre C kilometre D millimetre

(b) How can we measure the volume of an irregular shaped stone?

- A: By using a 30-cm ruler
B: By using a displacement can and a measuring cylinder.
C: By using an electronic balance.
D: By using a measuring tape

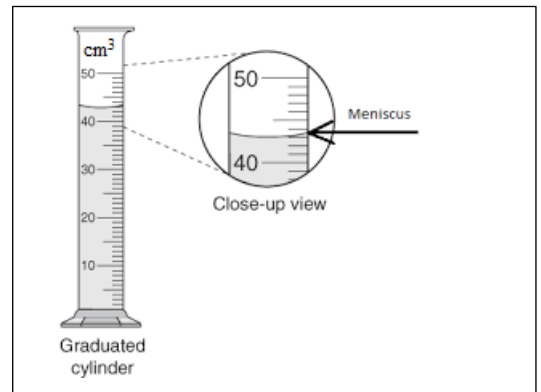
(c) A block is placed on a ruler as shown below. What is the length of the block?



- A 2.3 cm B 2.9 cm C 5.2 cm D 7.5 cm

(d) The diagram below shows the meniscus of a liquid in a measuring cylinder. What is the volume of liquid shown in the measuring cylinder?

- A 40 cm³ B 43 cm³
C 44 cm³ D 50 cm³



(e) Temperature can be measured in

- A: kilogram (kg) B: metre cube (m³) C: kelvin (K) D: second (s)

2. Match each item in column A with the corresponding one in column B.

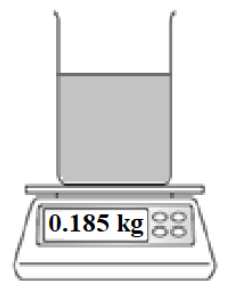
Column A	Column B
	<p>For measuring volume of a liquid</p>
	<p>For measuring length</p>
	<p>For measuring time</p>
	<p>For measuring temperature</p>

3. An empty beaker is placed on a measuring instrument as shown below. Some water is now poured into the beaker.

(a) Name the measuring instrument used to measure mass.



empty beaker



beaker + water

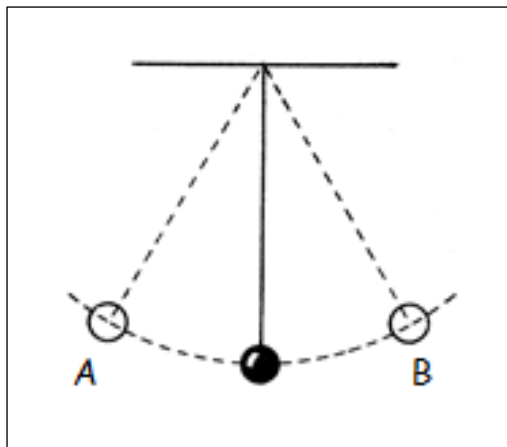
(b) Determine the mass of water placed in the beaker in kg.

Mass of water: _____ kg

(c) Convert the mass of water in grams.

Mass of water: _____ g

4. A student wants to obtain the time period of the simple pendulum shown below.



(a) Explain the term *time period*.

(b) It takes 16.0 s for the pendulum to swing from **A** to **B** and back to **A** 10 times. Calculate the time period of the simple pendulum.

Answer: _____