

<p>Vocabulary: Calipers (القصاص) jaws (فك)</p>	<p>① يكون قادراً على القياس be able to measure physical objects and events measurement</p>
<p>barometer: مقياس ضغط جوي</p>	<p>is especially important in laboratory</p>
<p>blood temperature: درجة حرارة الدم</p>	<p>Experiments involve measuring</p>
<p>mercury: زئبق</p>	<p>mass, length, time, temperature,</p>
<p>pointer: مؤشر</p>	<p>pressure of other quantities.</p>
<p>column: عمود</p>	<p>the result are useless, however,</p>
<p>thermometer: مقياس الحرارة</p>	<p>unless standard units of</p>
<p>top-pan balance: ميزان الذي يوزن في أعلى طبق</p>	<p>measurement are used. one</p>
<p>hours: ساعة</p>	<p>system of standard units is</p>
<p>seconds: ثانية</p>	<p>the SI system. the Kilogram (kg)</p>
<p>minutes: دقيقة</p>	<p>the metre (m) and the second (s)</p>
<p>digital stopwatch: ساعة توقيت رقمية</p>	<p>are basic SI units. the SI unit</p>
<p>scale: (تدرجيات) سلم</p>	<p>for temperature is the Kelvin</p>
<p>measuring flask: قارورة قياس</p>	<p>but degrees Celsius (°C) is more</p>
<p>analogue stopwatch: ساعة توقيت تناظرية</p>	<p>common outside the laboratory.</p>
<p>digital read-out: قراءات رقمية</p>	<p>Similarly, the SI unit for pressure</p>
<p>spring balance: ميزان (النابض)</p>	<p>is the pascal but bars, millibars</p>

Measuring

the basis of science and technology is measurement. Scientists and technicians must for ex; Vernier calipers are used

عرض صغير لقياس
to measure small width and
بينما الأقطار diameters while a travelling
يقدم microscope is used to measure
ساعات صغيرة small length.

أد balance or a spring
balance can be used to measure
الوزن أو الكتلة mass or weight. stop watches

تستخدم are used to measure time. the
أو - نظرية (بالتر) يمكن أن تكون القراءات
read-out can be analogue or

رقمية digital thermometers are used
لقياس الحرارة بينما to measure temperature while

barometers and manometers are
تستخدم used to measure atmospheric pressure

Measuring flasks are used for
بالليتر لقياس الحجم Volume, measured in litres.

نافع مفيد useless \neq use ful

ثقيل خفيف heavy \neq light

**** look at the table. Fill in the missing information.**

الكمية المقاسة quantity being measured	جهاز القياس measuring device	وحدة القياس الممكنة possible unit of measurement	اختصار Abbreviating
length	calipers ; traveling microscope	millimeter	mm
temperature	thermometer	degrees celsius	°C
mass	spring balance	grams	g
time	Stop watches	seconds, minutes, hours	s, m, h
Volume	measuring flask	liters	l
Pressure	barometer, manometers	milibar s ; hectopascals	mb; hb

كيفية وزن
How to weigh an elephant

When vets need to give medicine to large animals, they must know how much the animal weighs. but how can you weigh an elephant? there

is no top-pan balance big enough for the elephant to sit on. you need huge pair of scales which is strong

enough to hang the elephant from. you could use a small pair of scales, a boat and a pile of stones.

First, put the elephant into the boat. the boat goes down in the water. Mark a line on the side of the boat at the level of the water with a

marker pen take the elephant out of the boat. the boat goes up in the water. weigh large stones and write the weight on each stone. put the stones into the boat until it goes down to the level of the mark. Add

up the weights, and you have the weight of the elephant. you could go further. write the weight of elephant next to

the mark on the side of the boat. take out stones in groups of 10kibs and write the weight each time. continue until

there are no more stones in the boat you have now calibrated a measuring device for animals or other heavy items.

أجاب و النص آخر
Read text and answer:

من الصعب قياس الوزن
It is difficult to weigh elephants because:

- a) they are so big. كبير جداً
- b) they are so heavy. ثقيل جداً
- c) they are wilde. صيوان بري
- d) they are so big and heavy. كبير و ثقيل

عندما تخرج الفيل من القارب
2) what happens when you take the elephant out of the boat?

- a) the boat goes down in the water. القارب ينزل في الماء.
- b) the boat goes up in the water. القارب يرتفع في الماء.
- c) the water goes into the boat. الماء يدخل القارب.
- d) a line goes under the water. الخط أسفل الماء.

إلى أن يصل القارب إلى الأرض
3) you put stones into the boat until...

- a) the line is under the water. الخط أسفل الماء.
- b) you have no more stones. أحجار كثيرة ليس لديك.
- c) the line is at the same level as the water. الخط هو على نفس مستوى الماء.
- d) the boat goes down in the water. القارب ينزل في الماء.

تفحص
4) calibrate means:

- a) write weights on stones. كتبت الأوزان على الحجارة.
- b) mark up a device for measuring. علامت الجهاز للقياس.

أجاب و خطوط رسم
c) draw lines on about.

صنع قياس
d) make a measuring device.

أوجد الخطأ
Find and correct the mistake.

1) what is length of the line?

what is the length of the line?

2) How height is the rectangle?

How is the height of the rectangle?

3) what is the Volume of the square?

4) How is the temperature of the water? what ... ?

5) what the volume of triangle?

what is the area of triangle?

6) what is the radius of the square?

what is the length of the square?

what is the width of " " ?

radius of the circle?

طياتي العصب افتر امانة صوية و فقط تأتي إجابة صحيحة واحدة.

Reem AL-Rahabi

😊 good luck 😊