

\* لَاب أُكْسِيَات الكِيمَاء الْعَامَّة 108

\* الْحَالِب : رِيْزَن رِيَاهِن الْمَخْطِيب  
هَذِهِ مَدِينَةُ سَنَةِ ثَانِيَةِ

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① Exp. 1 | Safety, Equipments & Weighing

② \* Some of safety Rules :

- 1) Not allowed in lab : Eating , Drinking , Open Sandals , Short skirts .
- 2) Don't :- dispose solids into sink .
  - Point the test tube toward you during heating OR toward any Person .
  - use your mouth to fill OR taste chemicals .
  - use the Chemicals on the side shelves , unless the lecturer told you .
  - return any excess chemicals to the reagent bottles OR bottles of solid materials .

- <sup>(3)</sup> 3) Wear safety glass & lab. coat.
- 4) Use fume hood for rxns with toxic gases.

#### ④ \* Accuracy of tools :

used to Prepare Solns  
with high acc.

rxns

for titration with  
swirling



⑤ \*) Weighing: Calculate uncertainty

0.00

① Balance: \* One decimal:  $5g \rightarrow 5.0g \pm 0.1$   
 \* two decimals:  $5g \rightarrow 5.00g \pm 0.01$

1) 5.80 Two  
 2)  $\pm 0.01$   


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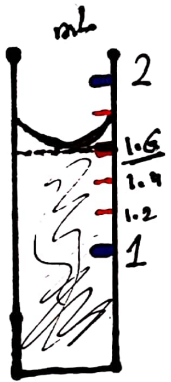
~~6.80  $\pm 0.01$~~   
~~6.80  $\pm 0.01$~~   
0.1

~~7~~ 7.1  
 $7.10 \pm 0.01$   
 $7.1 \pm 0.1$

⑥ \* Weighing:

② Volumes & Thermometer & lengths:

calibration  
2



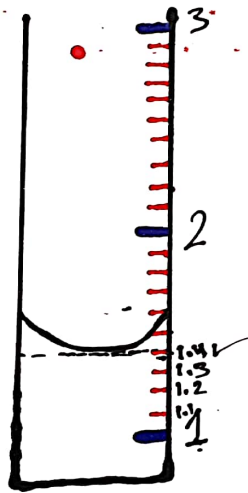
1.60 mL  $\pm$  0.1

↓  
should  
be added

$$\frac{0.2}{2} = 0.1$$

unc.

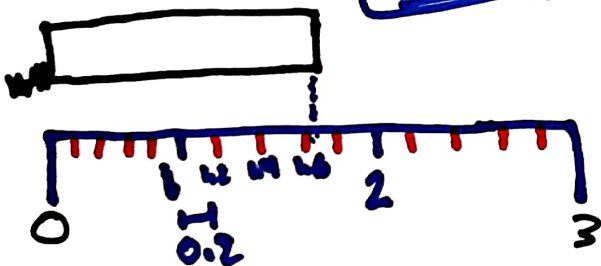
$$\boxed{1.60 \pm 0.1}$$



1.40 mL  $\pm$  0.05

$$\frac{0.1}{2} = 0.05$$

$$\frac{0.2}{2} = 0.1$$



Q1 The correct statement concerning handling of chemicals in lab is :

- 1) Direct contact with chemicals is allowed.
- 2) No need to read the label on the reagent bottles.
- ☒ 3) Smelling & tasting chemicals are not allowed.
- 4) Toxic chemicals can be used outside the fume hood
- 5) All of the above.



Q2] Which of the following statement is not Correct :

- 1) Open Sandals, short skirts & shorts are not allowed in Lab.
- 2) When dealing with flammable material, don't heat with direct flame.
- 3) You should ~~return~~ <sub>not</sub> excess chemicals to their reagent bottles.
- 4) Never taste or smell chemicals or solns in the Lab
- 5) Laboratory work can't be started as soon as you enter the Lab, unless the teacher is Present.

Q3) Which of the following is not a safety equipment:  
1) ~~Beaker~~ 2) Goggle 3) first aid equ. 4) fire blanket

Q4) .... not safety

- 1) first aid equipment
- 2) fire distinguisher.
- 3) ~~Graduated cylinder~~
- 4) fume hood
- 5) fire blanket

Q5] True OR False :

☒ Don't point your test tube at your face when heating anything to watch what happening exactly .

☒ Open sandals, short skirts & shorts are allowed in the Lab .