

Measurement

January 6– 9, 2014

Measurement, Safety

Bell Work, Monday, Jan 6, 2014

1. The symbols for units of length in order from largest to smallest are

- a. dm, m, cm, mm, km.
- b. mm, m, cm, dm, km.
- c. km, mm, cm, m, dm.
- d. km, m, dm, cm, mm.

2. Explain what the "d" means in dm.

The d stands for deci. Deci = $\frac{1}{10}$ the base unit

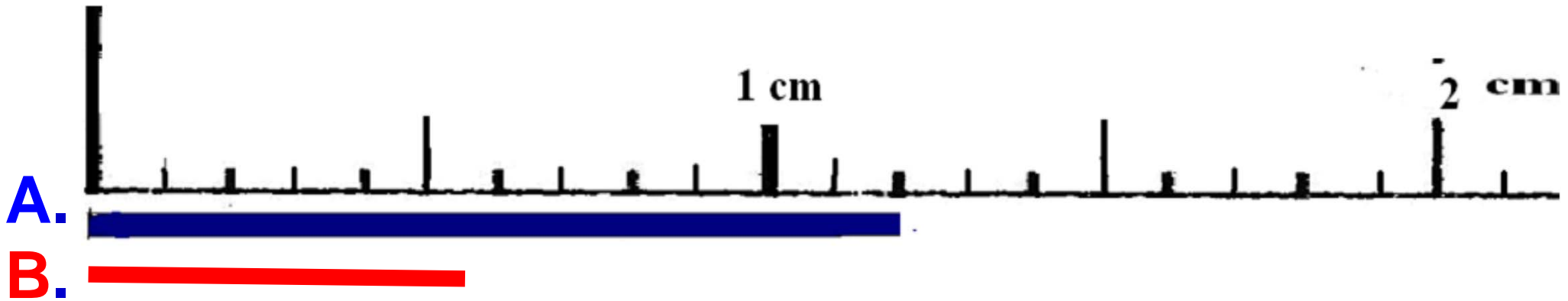
3. Explain what the "m" means in dm.

The m stands for meter. Because the m comes after the d, meter is the base unit. Thus dm means $\frac{1}{10}$ of a meter

4. Meters are used to measure

- a. distance
- b. weight
- c. Time
- d. volume

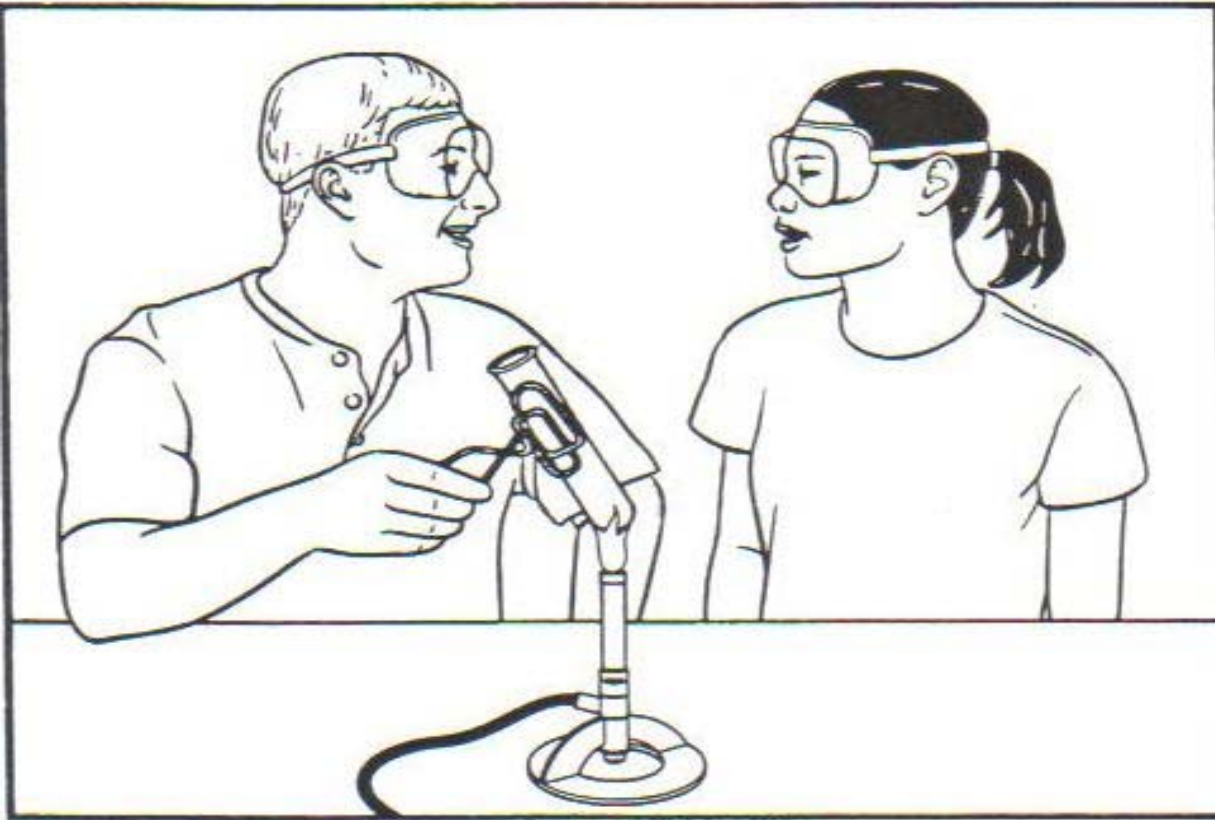
Bell Work, Tuesday, Jan 7



Draw the ruler and lines.

1. Record the length of line A in centimeters (cm)
2. Record the length of line A in meters (m)
3. Record the length of line B in decimeters (dm)
4. Record the length of line B in millimeters (mm)
5. Record the length of line A in kilometers (km)

Bell Work, Wednesday, Jan 8

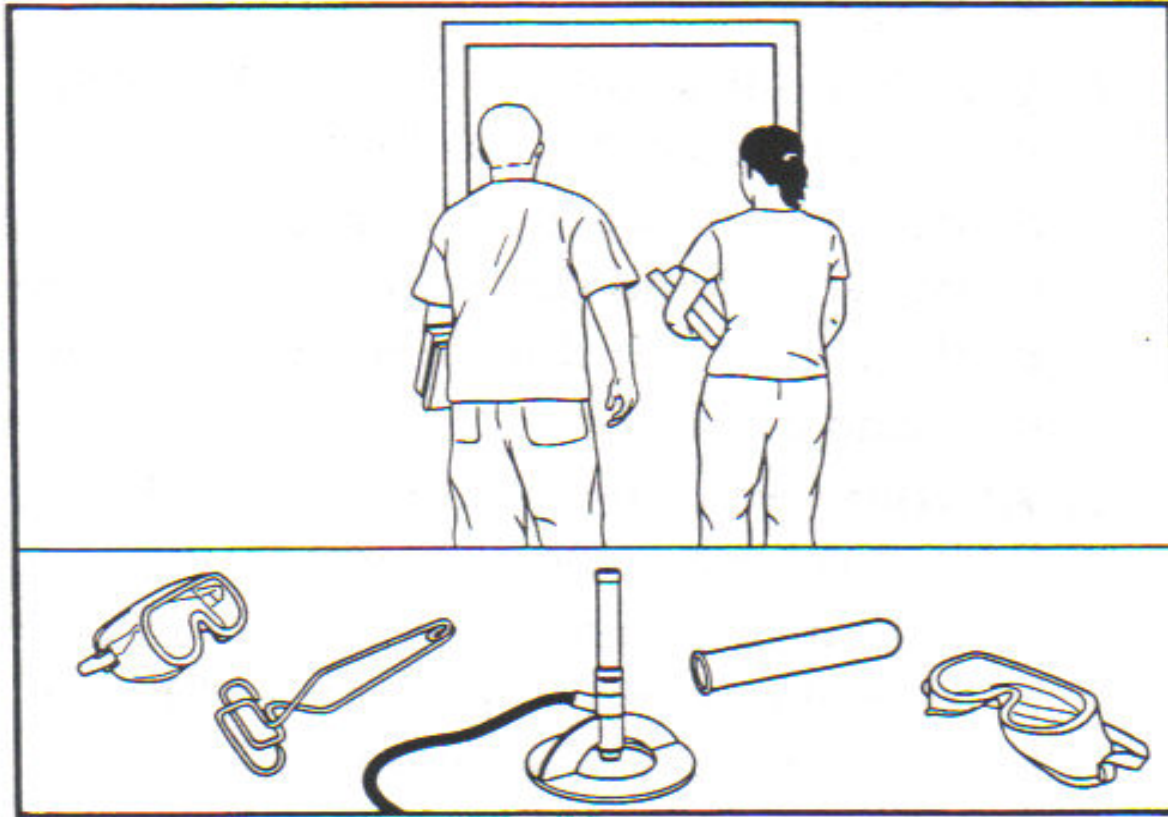


DO NOT DRAW
THE
PICTURES

picture 1

1.Explain what safety rule(s) these students are violating in picture 1?

Bell Work, Wednesday, Jan 8



picture 2

2. Explain what safety rule(s) these students are violating in the picture 2?

Answers **Bell Work**, Wednesday, Jan 8

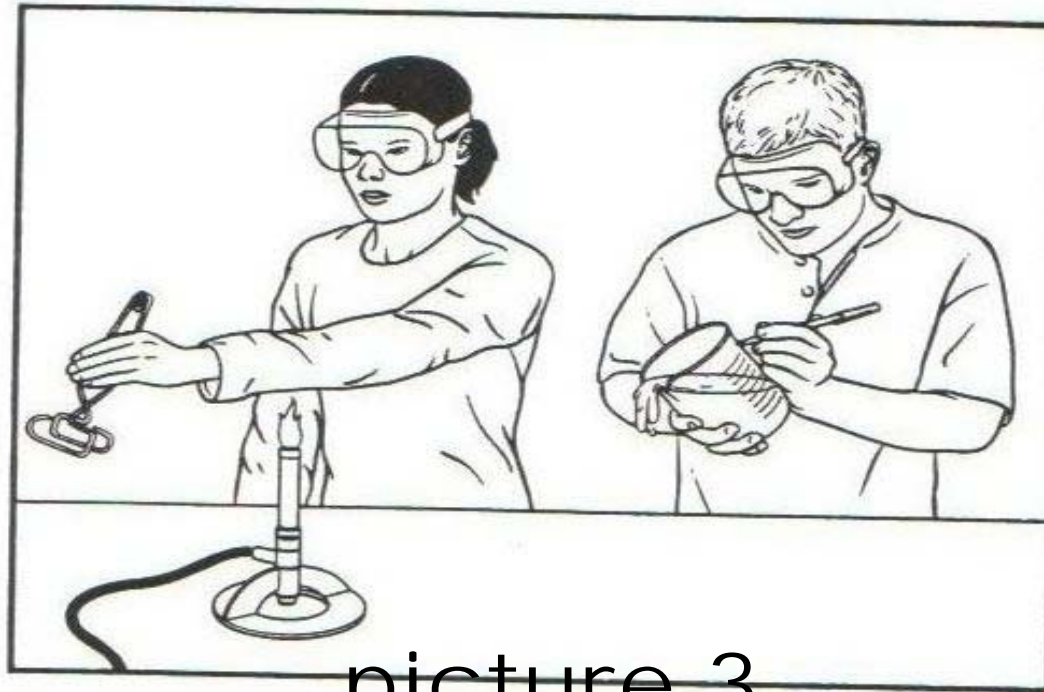
1. The students are not paying attention to what they are doing.

- They are socializing instead of paying attention to what they are doing.
- **He is pointing the test tube at his face.**
- **Never point the end of a test tube or any other container towards yourself and other people.**

Answers **Bell Work**, Wednesday, Jan 8

2. Clean up before you leave the lab.

Bell Work, **Bell Work**, Wednesday, Jan 8



picture 3

15

3. Explain what safety rule(s) these students are violating in picture 3?

Bell Work, Wednesday, Jan 8



picture 4

4. Explain what safety rule(s) this student is violating in picture 4?

Answers **Bell Work, Wednesday, Jan 8**

3. The girl has her arm over the flame.

- The boy is not being careful because he is spilling liquid from his beaker.

Answers **Bell Work, Wednesday, Jan 8**

4. She is not wearing goggles.

- There are unnecessary items are on the lab table.**
- She is working alone.**

Bell Work, Thursday, Jan 9

Use the ruler & line from Tuesday.

1. Record the length of line A in centimeters (cm) using one uncertain digit. Underline the digits with certainty (certain digits).

1.20 cm

2. Circle the uncertain digit. Why is this digit uncertain?

1.20 cm The zero is an estimate.

3. What are significant figures?

Significant figures in a measurement consist of all the digits known with certainty plus one final digit, which is uncertain or is estimated.

4. How many significant figures are in the measurements?

Three