

Name_____ Period ____ Date_____Mail Box_____

Note Reference - Metric System

Part A. Matching

Word Bank:

Gram Liter Meter Newton Kilo Milli Centi

Spring Scale Balance Scale Metric Ruler Graduated Cylinder

1. _____ Used to measure length.
2. _____ Used to measure liquid volume.
3. _____ Used to measure mass.
4. _____ Used to measure weight.
5. _____ Basic unit of weight.
6. _____ Basic unit of mass.
7. _____ Basic unit of length.
8. _____ Basic unit of volume.
9. _____ Prefix (1000)
10. _____ Prefix (1/1000)
11. _____ Prefix (1/100)

Part B. Conversions

12. 10 m = _____ mm
13. 1600mm = _____ cm
14. 6500 kg = _____ g
15. 100 cL = _____ L
16. 12 g = _____ mg
17. 356km = _____ m
18. 67.8mL = _____ L
19. 99.1L = _____ kL

			METER 1			
Kilo 1000	Hecto 100	Deca 10	LITER 1	Deci 10th	Centi 100th	Milli 1000th
			GRAM 1			

1. 4.3 cm = _____ mm

2. 0.7698 km = _____ m

3. 8659.1 mg = _____ g

4. 21.67 cg = _____ hg

5. 698.23 hm = _____ km

6. 5.46023 m = _____ mm

7. 904.7 cL = _____ L

Metric Conversion Worksheet

1. Convert the following: 5 meters = _____ km
2. Convert the following: 3 meters = _____ mm
3. Convert the following: 7 meters = _____ cm
4. Convert the following: 60 millimeters = _____ km
5. Convert the following: 2.5 meters = _____ mm
6. Convert the following: 4.5 centimeters = _____ km
7. Convert the following: 77 meters = _____ dm
8. Convert the following: 37 decimeters = _____ mm
9. Convert the following: .002 centimeters = _____ mm
10. Convert the following: 44 millimeters = _____ m
11. Convert the following: 25 kilometers = _____ m
12. Convert the following: 880 meters = _____ cm
13. Convert the following: 9.5 kilometers = _____ decimeters
14. Convert the following: 66 decimeters = _____ decameters
15. Convert the following: 5 meters = _____ hectometers

			METER 1			
Kilo 1000	Hector 100	Deca 10	LITER 1	Deci 10th	Centi 100th	Milli 1000th
			GRAM 1			

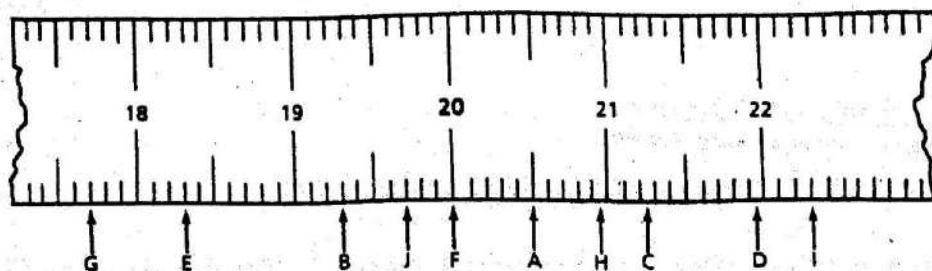
Metric Measurement

Part A. Reading Instruments

1. An enlarged section of a metric ruler is shown below. There are letters along the bottom edge of the ruler. Write the measurement for each letter in the space next to the correct letter below.

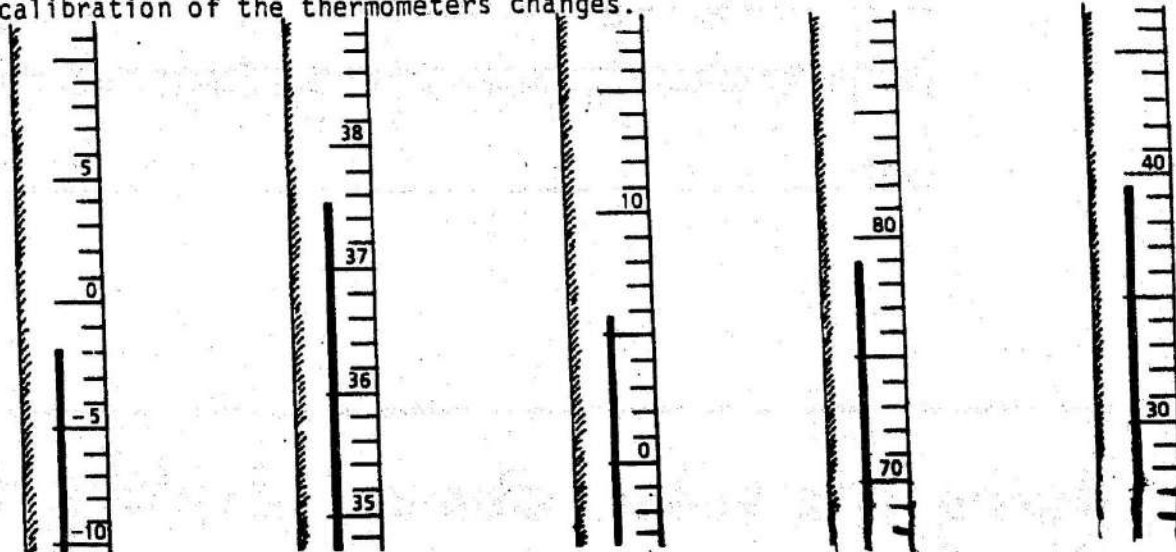
FIGURE 1-2:

Keep in mind
this ruler has
been enlarged!



- a. _____ c. _____ e. _____ g. _____ i. _____
b. _____ d. _____ f. _____ h. _____ j. _____

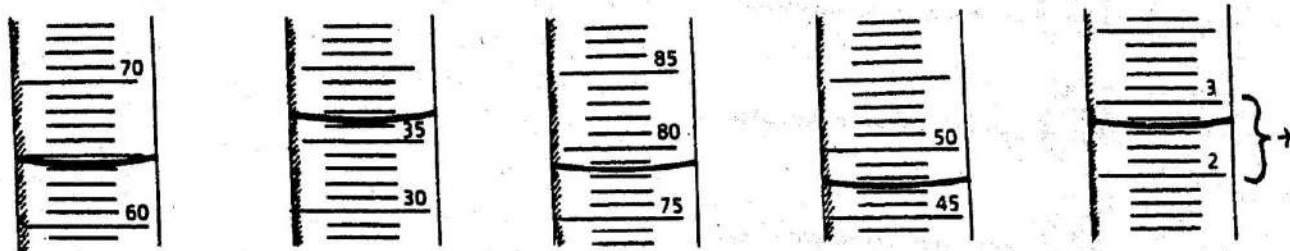
2. Portions of five thermometers are shown. Record the temperature reading for each thermometer in the space provided. Students should express their answer in $^{\circ}\text{C}$. Note that the calibration of the thermometers changes.



- a. _____ b. _____ c. _____ d. _____ e. _____

3. Portions of five graduated cylinders are shown below. The water level in each is shown by a heavy dark line. Read the water level in each and record your answers in the spaces provided.

FIGURE 1-4.



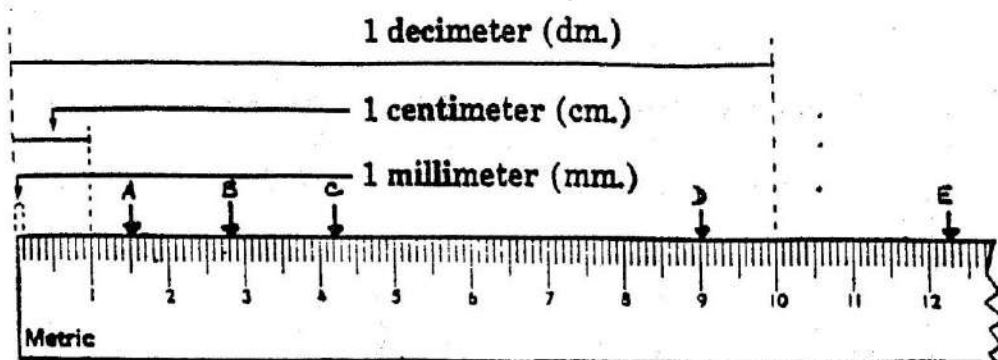
- a. _____ b. _____ c. _____ d. _____ e. _____

Name _____
Date _____

Metric Units of Length

A meter (m.) is approximately 39.37 inches long.

To name a unit of length other than the meter, a *prefix* is attached to the word meter. This prefix denotes the relationship of that particular unit to the meter.



Using the ruler above, identify the following points.

A) _____

B) _____

C) _____

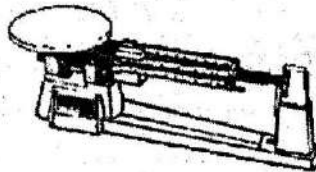
D) _____

E) _____

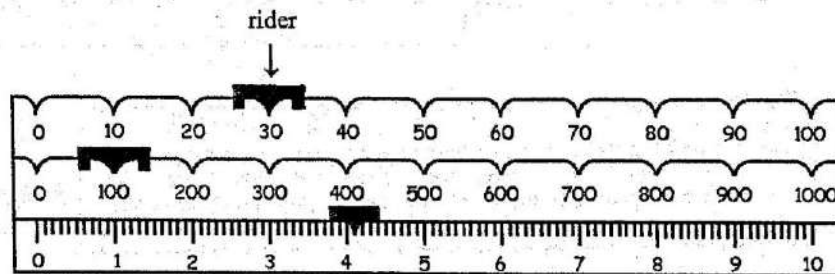


Measuring Mass

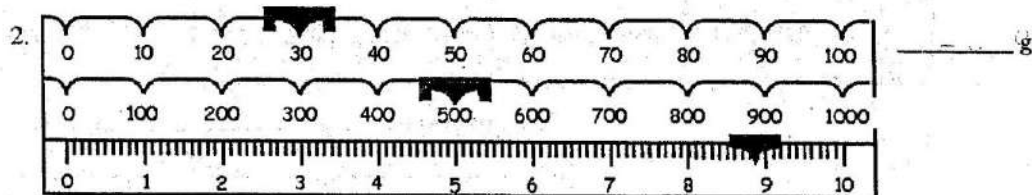
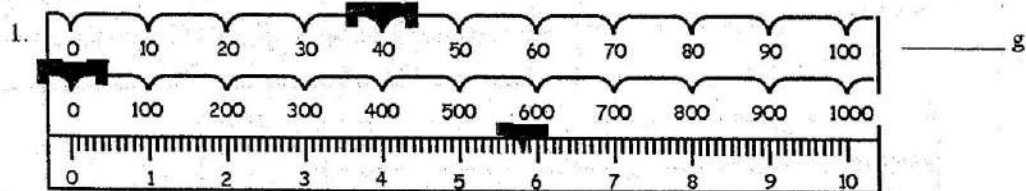
In the Metric System, mass is measured in grams (g) using a triple-beam balance. It is called a triple-beam because it has three beams that are used to determine the mass of an object.



On each beam, there is a rider which can be moved to different reading until the object is balanced.



Determine the mass of the following objects pictured below.

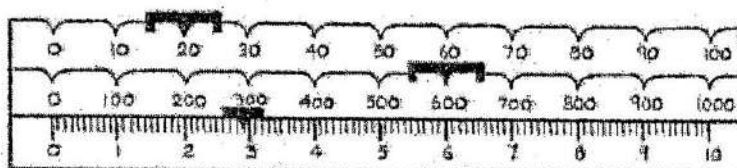


THE TRIPLE AND FOUR BEAM BALANCES

Name _____

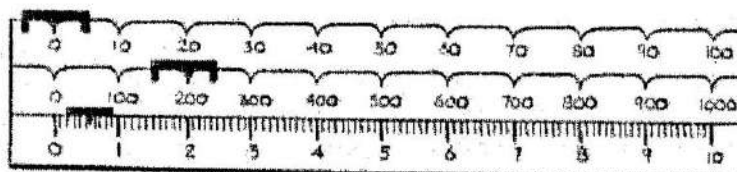
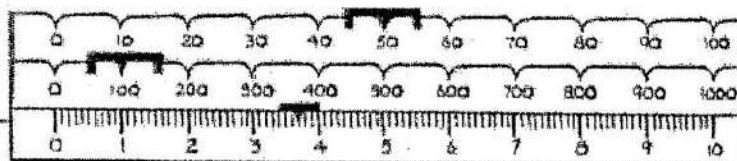
What masses are shown on each of the following balances?

Triple Beam Balance



Answer: _____

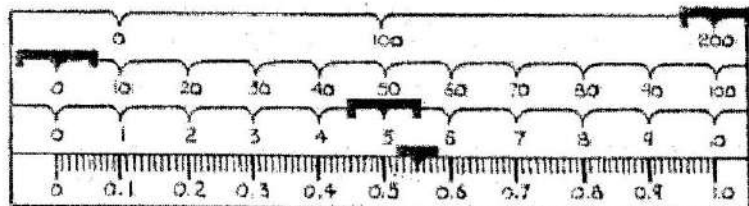
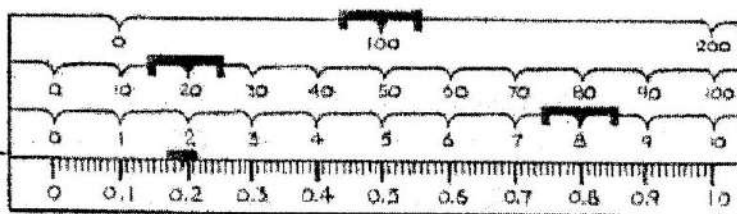
Answer: _____



Answer: _____

Four Beam Balance

Answer: _____



Answer: _____

Answer: _____

