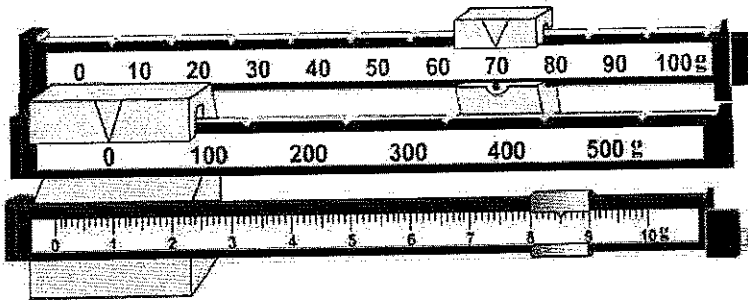
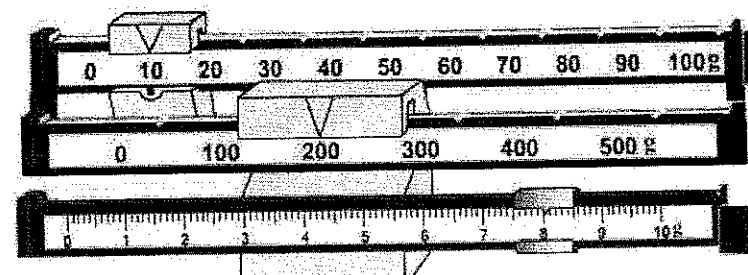


Key

Find the mass from the following two balanced triple-beam balances.



Slider 1 = 70g
Slider 2 = 0g
Slider 3 = 8.5g
Total Mass = 78.5g



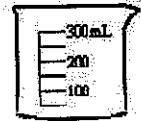
Total Mass = 218g

What must you always do before measuring with a balance scale?

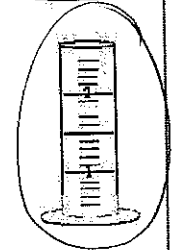
adjust to zero

Which is more precise?

A beaker:



or a graduated cylinder?



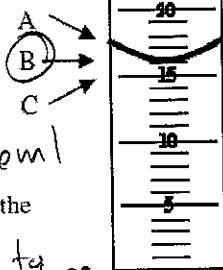
Why?

GC. is a finer instrument

What do we call the curvature of water in a glass tube?

meniscus

Circle the correct position to read the meniscus.



How much water is in this graduated cylinder?

16ml

Why does water "climb up the sides of the glass cylinder?"

Water adheres to glass

Does this occur in plastic?

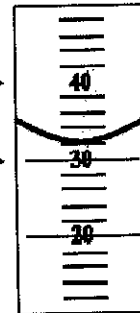
No

How many ml between the two arrows?

10ml
How many marks are there between the arrows? 5

How many mL is each mark? 2ml

How much water is in the graduated cylinder?



32mL

How much water is in the cylinder at the right?

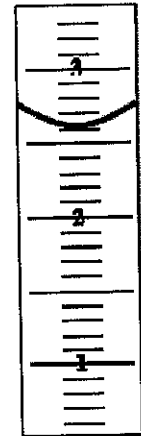
2.6ml

Which cylinder is more precise?

Right

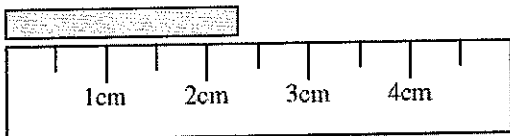
Why?

finer instrument



While hiding the bottom ruler, measure the grey object with the top ruler to the closest millimeter. Ask three other students for their measurements.

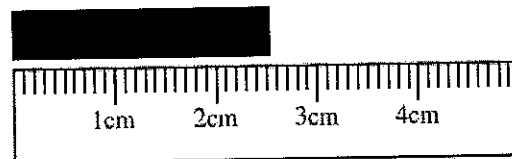
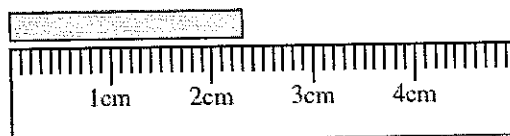
Your length: _____; Others: _____; _____; _____.



Measure the grey object with the bottom ruler. How close were the above measurements?

Which ruler is more precise?

Why?



How long is the black object in centimeters? 2.5cm

How long is the black object in meters? 0.025m

What is recalibration?

adjusting a tool to make it more precise

Why is it important that scientific instruments are able to be recalibrated?

To make sure they are precise + accurate