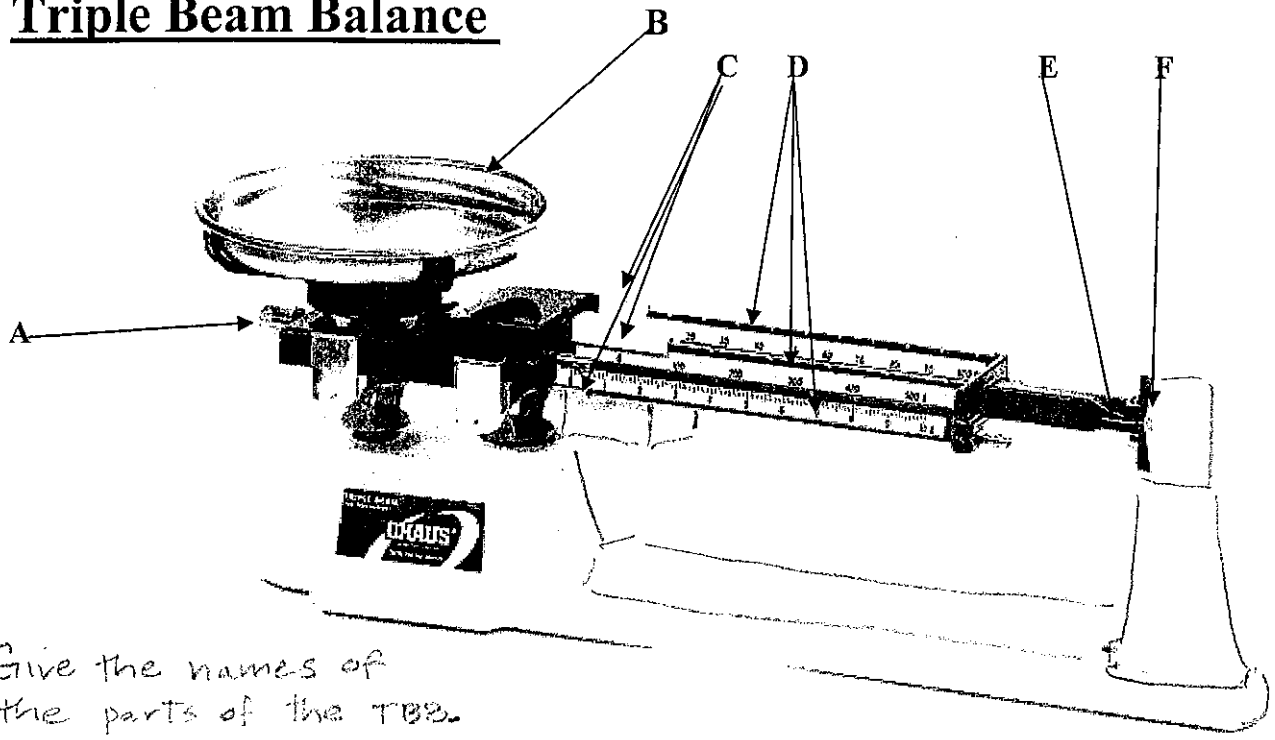


Triple Beam Balance



Give the names of the parts of the TBB.

See page 748 in red book.

1. Zero Adjustment Knob
 A= (Balance Nut)
 C= RIDERS
 E= POINTER →

B= PAN
 D= BEAMS
 F= INDICATOR — 0

2. What is the Triple Beam Balance used for? to measure the mass of an object
3. Which unit is used with the Triple Beam Balance? grams
4. Look at the first beam. How much is each division (line) worth? 0.1 grams
5. Look at the second beam. How much is each division (line) worth? 100 grams
6. Look at the third beam. How much is each division (line) worth? 10 grams
7. When you turn the balance nut toward you, which way does the pointer move? down (t.d.)
8. When you turn the balance nut away from you, which way does the pointer move? up (balloon)
9. Name at least 4 things you should do in order, to prepare your balance for use.

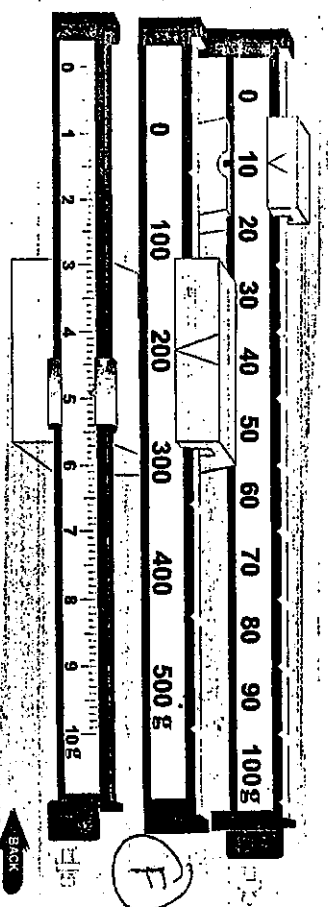
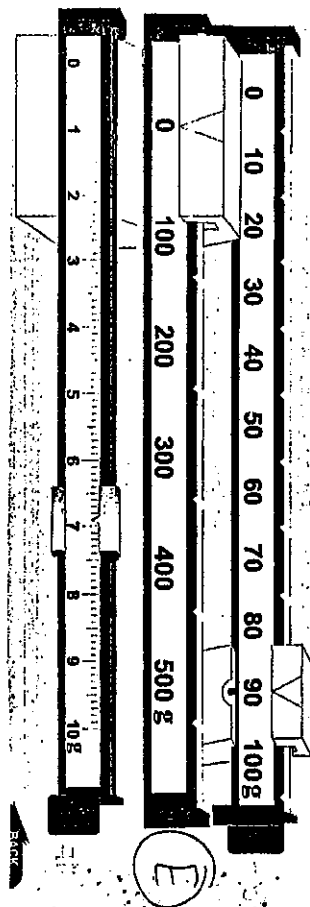
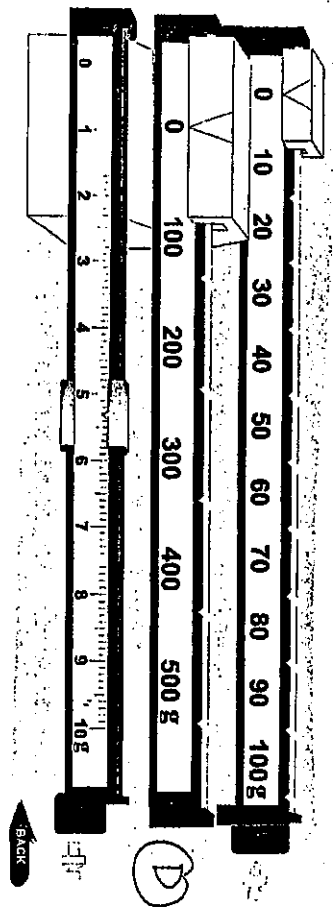
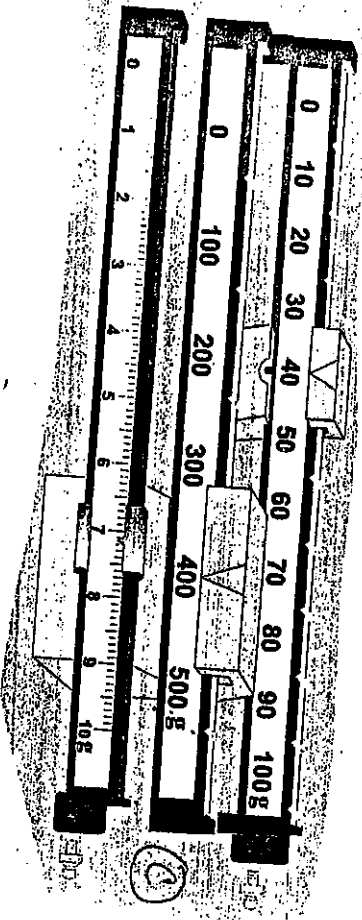
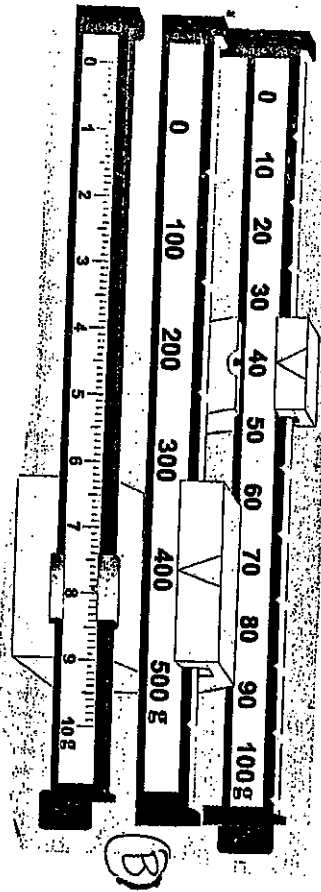
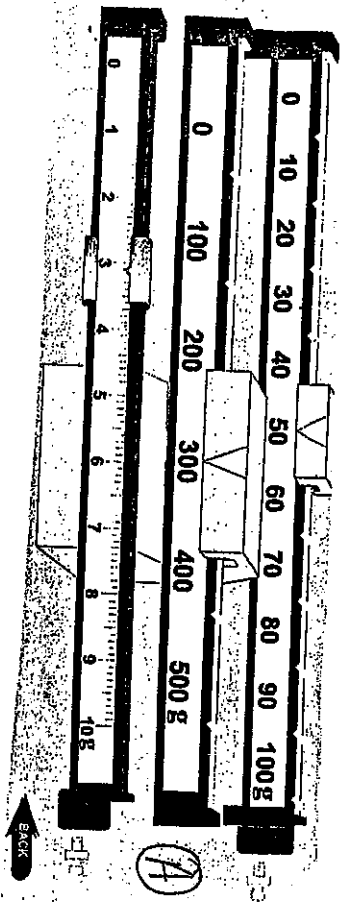
- ① Place the TBB on a flat surface.
- ② Clear the pan. Make sure nothing is on the pan!
- ③ Move all riders to zero.
- ④ Make sure pointer and indicator line up! → 0
- ⑤ If the pointer and indicator do not line up, turn the balance nut.

10. Explain using numbered steps, how to properly use the balance.

- ① Zero the TBB
- ② place object in middle of pan
- ③ move the riders on the beam until the pointer and indicator line up. Riders must fit into notches!
- ④ add beams up to obtain your measurement for mass in grams.

Do you know how to read scales on a Triple Beam Balance?

* Provide the mass of objects A-F.



A = 353.1 grams
 B = 447.1 grams
 C = 447.1 grams

D = 5.3 grams
 E = 214.9 grams
 F = 96.9 grams