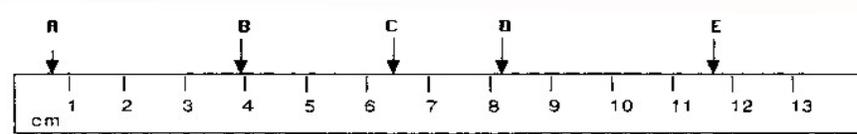


Measurement: Estimating One Place Beyond

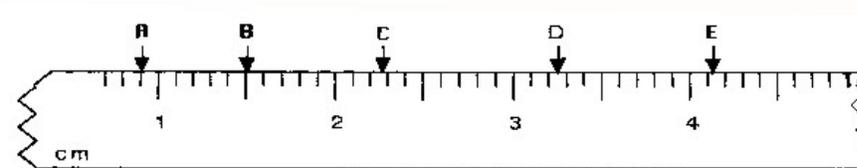
The accuracy of measurement is limited by the tools we use. If a clock doesn't have a second hand, we can estimate the number of seconds past the minute by looking at the minute hand. If a clock doesn't even have a minute hand, we can estimate time in hours and minutes, but certainly not seconds!!

Directions: Based on the diagrams below, make the best estimate for each of the measurements indicated by the arrows.

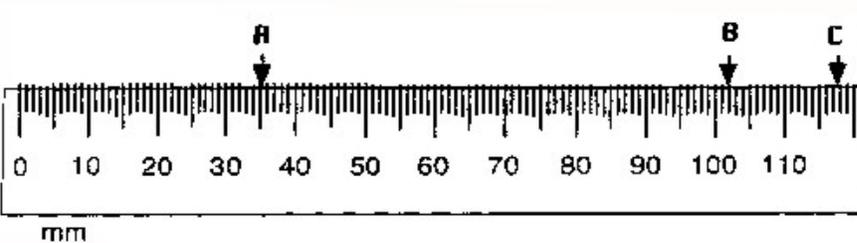
1. Estimate the number of centimeters indicated by each of the arrows below.



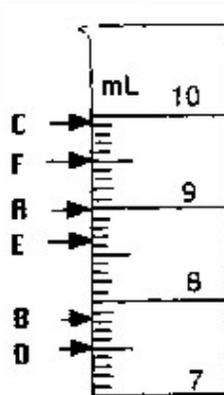
2. Estimate the number of centimeters indicated by each of the arrows below.



3. Estimate the number of millimeters and the number of centimeters indicated by each of the arrows below.



4. Estimate the number of milliliters indicated by each of the arrows below.



1. [a] _____
 [b] _____
 [c] _____
 [d] _____
 [e] _____
2. [a] _____
 [b] _____
 [c] _____
 [d] _____
 [e] _____
3. [a] _____ mm
 _____ cm
 [b] _____ mm
 _____ cm
 [c] _____ mm
 _____ cm
4. [a] _____
 [b] _____
 [c] _____
 [d] _____
 [e] _____
 [f] _____