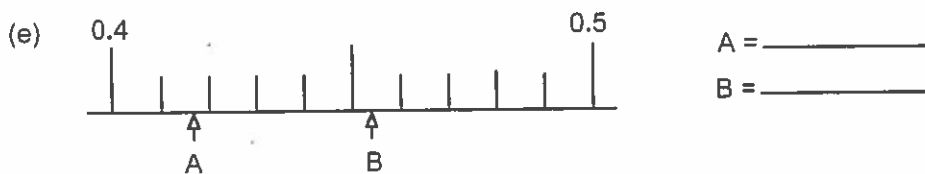
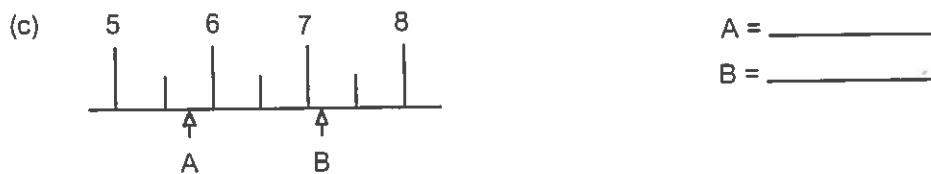
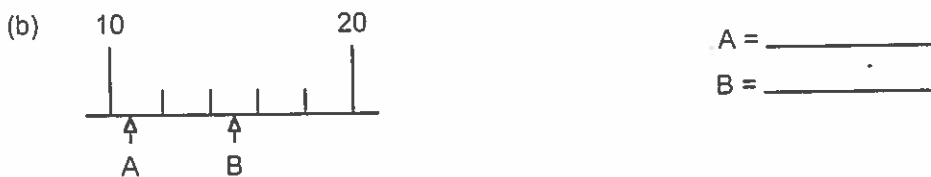
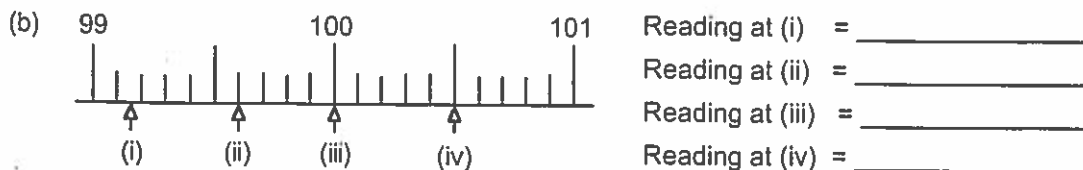
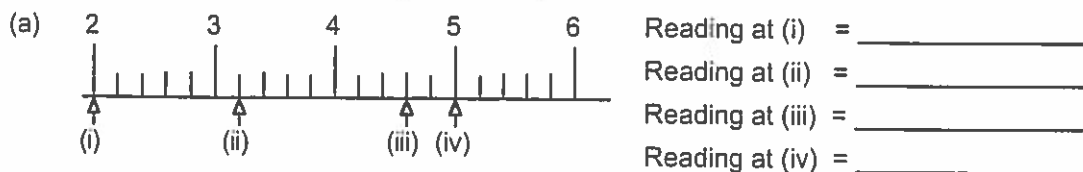


EXERCISE:

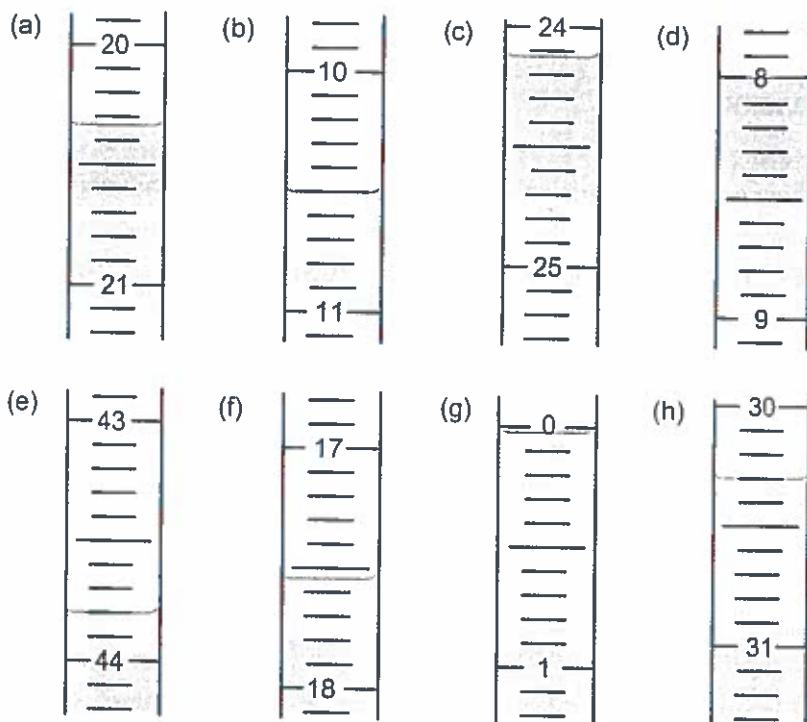
48. In each of the following, determine the reading as follows. **Note:** all measurements are in "cm".
- Find the difference between each numbered division.
 - Find how many unnumbered subdivisions lie between each numbered division and calculate the value of the intervals between each unnumbered subdivision.
 - Estimate the value at the pointer (you will have to estimate how far the pointer is from one unnumbered subdivision to the next).



49. Determine the readings on the following centimetre rulers.



50. Determine the volume readings of the following burettes. Care! The numbers *increase* going *down* the scale.



53. Record values for the experimental uncertainty encountered in using the following apparatus.

Apparatus	Difference between numbered divisions	# of unnumbered subdivisions between numbered divisions	Smallest unnumbered subdivision	Uncertainty of measurement
thermometer				
10 mL graduated cylinder				
25 mL graduated cylinder				
100 mL graduated cylinder				
250 mL graduated cylinder				
50 mL burette				
clock				
balance				
Other:				
Other:				
Other:				