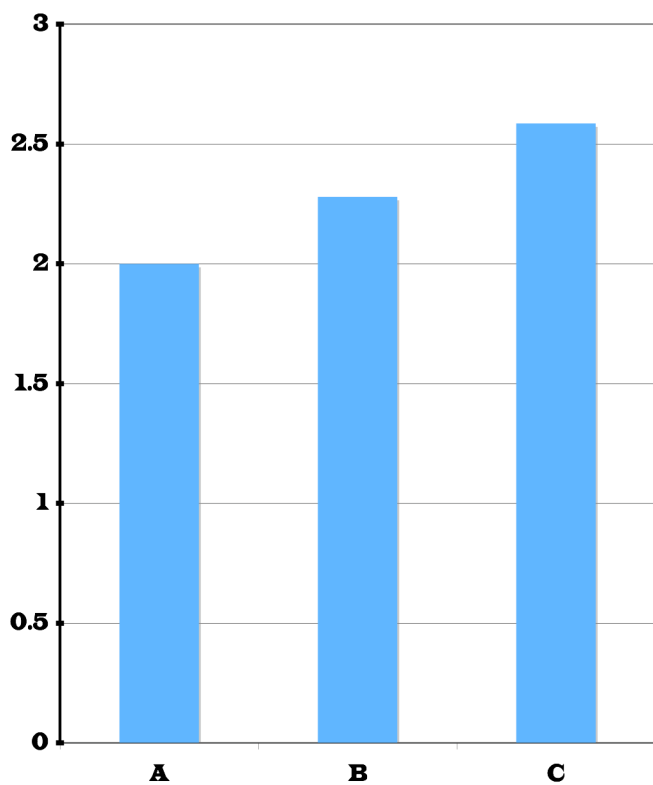
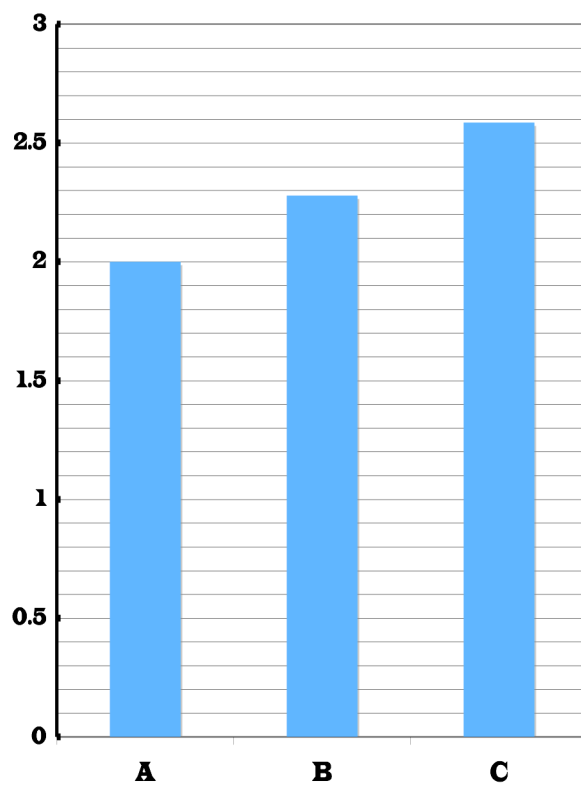


Measurement and Significant Figures

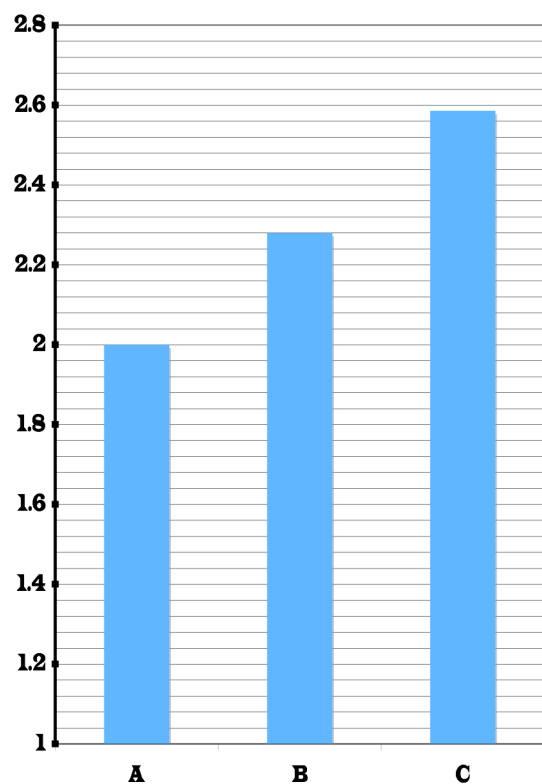
1. Use the grids to give the value of the volumes indicated by each of the bars. Indicate the correct number of significant figures in your answer.



I.
A _____ ml
B _____ ml
C _____ ml



II.
A _____ ml
B _____ ml
C _____ ml



III.

A _____ ml
B _____ ml
C _____ ml

2. Use what you know about significant figures to calculate the following.

(a) $I_A + I_B$

(b) $I_C - I_B$

(c) Take the difference between your answers in IIB and IB

(d) Multiply your answer in IA by 2

3. Calculate the following values using the significant figure rules presented in lecture.

(a) $3.0 \text{ cm} \cdot 6.72 \text{ cm} =$

(b) $5.0 \text{ cm} \div 4 =$

(c) $5 \text{ cm} \div 3.489 \text{ cm} =$

4. You had measured 25.2 ml of water and used a dropper to remove 2 ml. How much water are you left with?