

Unit 1: Reading Scales, Significant Figures, and Unit Conversions

For each of the following, write the scale reading with the correct number of sig. figures.

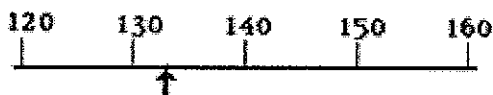
1.



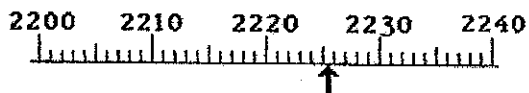
2.



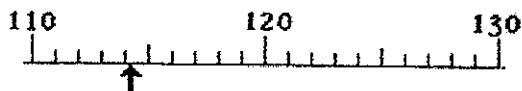
3.



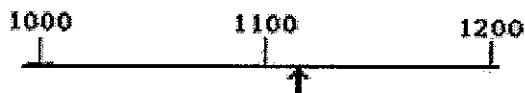
4.



5.



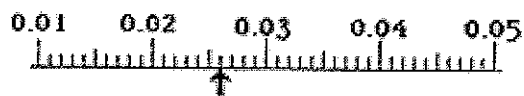
6.



7.



8.



9. Write the following as decimals.

a. 2.67×10^5

b. 1.3×10^{-3}

c. 6.8×10^2

10. Write the following with the correct number of significant figures as indicated.

a. 12,000,000 (3 significant figures)

b. 0.003768596 (2 significant figures)

c. 123768594 (3 significant figures)

11. Complete the following unit conversions:

a) $0.0923 \text{ Km} = \underline{\hspace{2cm}} \text{ mm}$

b) $49 \text{ Hg} = \underline{\hspace{2cm}} \text{ g}$

c) $210 \text{ cL} = \underline{\hspace{2cm}} \text{ dL}$

d) $4.51 \times 10^3 \mu\text{L} = \underline{\hspace{2cm}} \text{ mL}$

e) $45700 \text{ cg} = \underline{\hspace{2cm}} \text{ Kg}$

f) $24.6 \text{ KL} = \underline{\hspace{2cm}} \mu\text{L}$

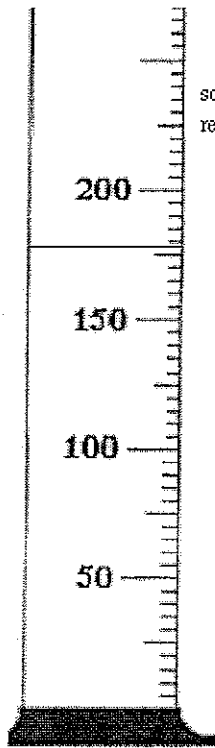
g) $82.4 \text{ nm} = \underline{\hspace{2cm}} \mu\text{m}$

h) $345 \text{ mg} = \underline{\hspace{2cm}} \text{ kg}$

i) $0.237 \text{ m} = \underline{\hspace{2cm}} \text{ millimeters}$

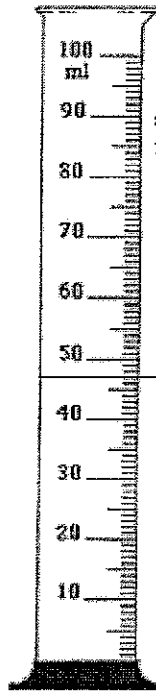
j) $3.5 \times 10^5 \text{ ng} = \underline{\hspace{2cm}} \text{ mg}$

For each of the volume devices below record the scale reading with the correct level of precision.



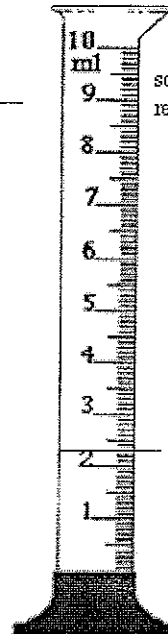
scale reading _____

9



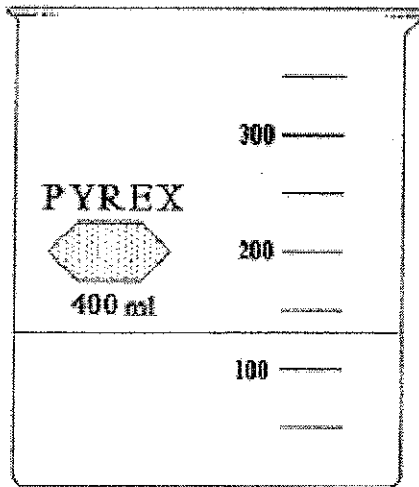
scale reading _____

10



scale reading _____

11



12 scale reading _____



scale reading _____

13