1 1 1 11 11 1 1 1 00 00 1 3 1010 011 11 11 11
1. A certain liquid has a density of 2.67 g/cm ³ . 134.0 g of this liquid would occupy a volume ofm L.
A)1.99 X 10^{-3}
(B) 50.2 D = M $V = \frac{m}{D}$ $\frac{134.09}{2.67cm^3} = 50.29 cm^3$
D) 25 8
D) 55.6
E) 0.502
2. The correct result of the molecular mass calculation for H ₂ SO ₄ is
$(4 \times 15.9994) + 32.066 + (2 \times 1.0079) =$ $(8) 98.079$ $(9) 98.074$ $(4 \times 15.9994) + 32.066 + (2 \times 1.0079) =$ $(9) 98.074$ $(2 \times 1.0079) =$ $(3) 98.08$ $(4 \times 15.9994) + 32.066 + (2 \times 1.0079) =$ $(4 \times 15.9994) + 32.066 + (2 \times 1.0079) =$ $(4 \times 15.9994) + 32.066 + (2 \times 1.0079) =$ $(5) 98.079$ $(6) 98.079$ $(7) 98.074$
A) 98.08
(B) 98.079 We as over
C) 98.074 NUMBER NUMBER 33 01-6 + 3 10158 = 9 8,0794
D) 98.838 63 9976 + 3d.066 + d. 0138 = 1
C) 98.074 D) 98.838 E) 98.84 Mumber number 63, 9976 + 32.066 + 2.0158 = 98.0794 3 decimals
3. A small amount of salt dissolved in water is an example of a
3. A small amount of salt dissolved in water is an example of a (A) homogeneous mixture Same as so we have
B) heterogeneous mixture
C) compound
D) pure substance
E) solid
4. Aluminum reacts with a certain nonmetallic element to form a compound with the general formula AIX. Element X is
a diatomic gas at room temperature. Element X must be A) oxygen
A) oxygen $1/0$ τ ℓ τ Λ
A) oxygen B) fluorine H, O, F, Br, I, N, Cl
C) chlorine
Dinitrogen
E) sulfur

5. Which pair of elements would you expect to exhibit the greatest similarity in their physical and chemical properties?
A) H, Li
R) Cc Ra
© Ca, Sr Same group D) Ga, Ge
D) Ga, Ge
E) C. O
6. Mass of an empty container Mass of the container plus the solid sample 25.0 grams Mass of the collid sample 25.0 grams D = 25.00g
6. Mass of an empty container 3.0 grams - 3.0 &
Mass of the container plus the
solid sample 25.0 grams $0 = \frac{2d}{dt} = \frac{2d}{$
Volume of the solid sample 11.0 cm ³
The data above were gathered in order to determine the density of an unknown solid. The density of the sample should be
reported as
(A) 0.5 g/cm^3 (B) 0.50 g/cm^3 (E) 2.27 g/cm^3 (C) 2.0 g/cm^3 (D) 2.00 g/cm^3
(C) 2.0 g/cm^3 (D) 2.00 g/cm^3
7. An student determines the density of an unknown solid to be 15.79 g/ml. The accepted value is 18.85 g/ml. What is
the student's percent error?
Define precision and give an example. To evroy = experimental - actual x 1003
Define accuracy and give an example.
recision = Clustered results
along to take t
cellracy= crose to rarger
couracy= close to target xample - 4 tails het donkey on ear on hind quarter precise accurate
XUMANIO - 7 IUMS HUN CUMEU N CO DV NINA RULA VIGO
precise accurate

Read the following statements. Choose which of these words best describes each statement: a. Mixtures in general c. Heterogeneous Mixtures e. Elements b. Solutions d. Substances f. Compounds 8. Made of two or more elements which are chemically combined 9. Pure metals such as iron, copper, silver and nickel are in this category 10. A homogeneous mixture where the components are completely uniform throughout 11. Components making this up keep their identifying properties 12. Cannot be broken down into simpler substances by ordinary chemical means 13. Can be separated by simple physical means like distillation, filtration, etc. $^{\prime\prime}$ 14. Examples include the following mixed together: oil and vinegar, salt and pepper, soil 15. All samples of this have identical properties like boiling point, color, and density which can help identify it. 16. Is not uniform in composition. It has two or more phases. Isotope Isotope Atomic # **Protons** Electrons Neutrons Notation 160 17. Oxygen-16 8 8 0 18. Bromine-80 80 19. Uranium-235 235 92 20. Copper-64 21. If you wanted to separate iron filings from sand, you would use a A: funnel B: filter G: magnet 22. The process used to separate heterogeneous mixtures of solids and liquids is called A) filtration B: crystallization/ evaporation C: distillation D: chromatography is a separation technique that uses the boiling points of various substances to separate mixtures. A: filtration 9,36+3= 3.12 9,36+4= 2,34 9.36+5=1.87 B: crystallization/evaporation C: distillation D: chromatography 24. A compound containing only carbon and hydrogen has a carbon-to hydrogen mass ratio of 9.36. Which carbon-to-hydrogen ratio is possible for another compound composed only of carbon and hydrogen? whole number multiple (B.) 3.12 A. 11.89 C. 4.56 D. 7.13 E. 2.45 25. 18K gold has a density of 14.9g/cm³. If a piece of gold foil has a mass of 250g and a thickness of 1.58 cm, what is the area of the gold?

14.9g = 250g V = 16.8 cm³ V = 1.0 W h 16.8 = A(1.5)

26. Convert 268.8 ounces to milligrams. (1 lb = 16 ounces, 1 lb = 453.6 grams) #g = 268 802 x 116 x 453.6g x 1000 mg = 7.620 x 106 mg

27. What is the average atomic mass of Niobium, based on this mass spectrometer results?

