Pd:

UNIT 4, SECTION 1 - MASS AND THE MOLE - PIZACTICE PIZOBLEMS

Part 1: Calculate the molecular weight for the following compounds. Round your answers to two decimal places.

Compound:	Show work and circle answer:
Sodium sulfide Na₂S	
Barium carbonate BaCO ₃	

Part 2: Take your molecular weights from Part 1 above and write them as molar masses:

Sodium sulfide	Barium carbonate

Part 4: Vocabulary:

The molecular weight is the overall ______ of a _____. When calculating molecular

weight you ______ together the masses of each element. Molar mass of a compound is measured in the

unit ______ because the molar mass of any substance is equal to EXACTLY 1 mole of that substance

(1 complete "set" of that substance).

Molar Conversions:

- 1. If you have 1.5 mol of Lithium, how many grams do you have?
- 2. How many grams are in 0.48 mol of Sodium chloride (NaCl)?
- 3. Challenge: How many molecules are in 4.56 grams of Calcium bromide (CaBr₂)?