MIXED MOLE PROBLEMS

Name Lingi L Zabrandi

Solve the following problems.

1. How many grams are there in 1.5 x 10th molecules of CO₃?

1.5 × 10 25 mol CO2×

6.023×1023 molecules (02

- 2. What volume would the CO, in Problem 1 occupy at STP?
- 3. A sample of NH, gas occupies 75.0 liters at STP. How many molecules is this?
- 4. What is the mass of the sample of NH, in Problem 3?
- 5. How many atoms are there in 1.3 x 10²² molecules of NO₂?

- 6. A 5.0 g sample of O2 is in a container at STP. What volume is the container?
- 7. How many molecules of O₂ are in the container in Problem 6? How many atoms of oxygen?

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