Name	Section	Date

The Mole

1. Find the molar mass and formula mass of a. C₂H₂F₄. b. Mg(OH)₂

2 a. Convert 0.225 mole of glucose (C6H12O6) to molecules.

- b. How many atoms of carbon are contained in the 0.225 mole sample of glucose?
- c. How many moles of hydrogen are contained in the 0.225 mole sample of glucose?
- d. Find the percent by mass carbon in glucose

Hint: mass % of C = $\frac{\text{mass of carbon in one mole of glucose}}{\text{mass of one mole of glucose}} \times 100\%$

- 4. Convert 53.8 grams of Mgl₂ to moles Mgl₂.
- 5. Convert 0.00278 mole H₂O to grams.