

Name: \_\_\_\_\_

**Moles Practice #1**

1) What is a mole? What is the representative particle of an element? What is the representative particle of a compound?

2) A sample of lithium is found to contain  $3.45 \times 10^{25}$  atoms of lithium. How many moles of lithium are present in the sample?

2) \_\_\_\_\_

3) During a lab, a student measures 2.15 moles of iron into a dish. How many atoms of iron are present in the dish?

3) \_\_\_\_\_

4) Water is represented by the chemical formula  $\text{H}_2\text{O}$ . If a sample of water is found to hold  $5.68 \times 10^{26}$  atoms of hydrogen, how many moles of water are in the sample?

4) \_\_\_\_\_

5) Calcium carbonate is represented by the chemical formula  $\text{CaCO}_3$ . How many atoms of oxygen are contained in 2.50 moles of calcium carbonate?

5) \_\_\_\_\_