## **Moles Conversions**

## Name\_

Show all work (you don't need to show calculation of molar mass, just conversion), and make sure every number has a unit!

- 1) Convert 25.0 g of  $H_2O$  to moles.
- 6) What volume of 1.50 M HCl would you need if you wanted 0.65 mols of HCL?
- 2) Convert 4.30 moles of MgCl<sub>2</sub> to grams.
- 7) How many grams of sodium sulfate are dissolved in 450.0 mL of a 6.0 M sodium sulfate solution?
- Convert 3.2 moles of Fe<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub> to grams.
- 4) Convert 2.0L of 3.5 M NaOH to moles of NaOH.
- 8) How many moles of chloride ions are dissolved in 250.0 mL of 0.525 M calcium chloride solution?
- 5) Convert 123.46 g of (NH<sub>4</sub>)<sub>2</sub>CO<sub>3</sub> to moles.

Answers:

1) 1.39 mol 2) 409 g 3) 1300 g or 1.3 x 10<sup>3</sup> g 4) 7.0 mol 5) 1.285 mol 6) 0.43 L 7) 380 g 8) 0.263 mol