Directions: *Show all work in single dimensional analysis set ups. Put units and boxes around each answer. Finished? Check your answers up front with the answer key!*

1) How many atoms are in 50 grams of water
2) How many grams are in 8.5 moles of lithium oxide?
3) How many atoms are in 25 moles of fluorine gas?
4) If a liquid has a density 4.3 g/mL, how many molecules are in 2.3 L? (The molar mass is 200g/mol)
5) How many grams are in 5.7 x 10^{26} molecules of dinitrogen hexaiodide?
6) How many atoms are in 45 grams of NH_3?

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