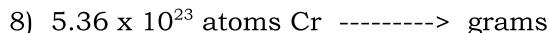
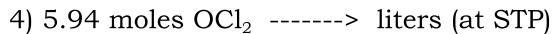
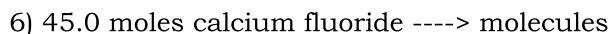
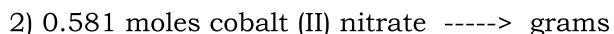
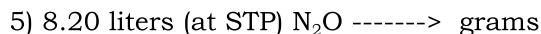
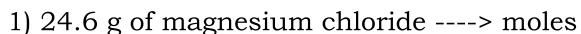


Mole Conversions 2

Name: _____

Perform the following mole conversions (show set up with unit factors):



9) You are given a sample that contains 92.6 grams of carbon tetrachloride (CCl_4). Determine the number of moles, liters (at STP) and molecules of carbon tetrachloride in the sample.

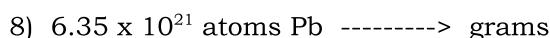
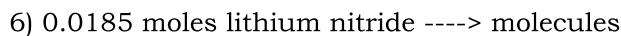
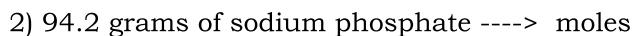
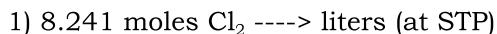
Answers:

- 1) 0.258 mol 3) 0.163 mol 5) 16.1 grams 7) 4.03×10^{24} molecules
 9) 0.601 moles, 13.5 L and 3.62×10^{23} molecules

Mole Conversions 2

Name: _____

Perform the following mole conversions (show set up with unit factors):



9) You are given a sample that contains 29.6 grams of sulfur trioxide (SO_3). Determine the number of moles, liters (at STP) and molecules of carbon tetrachloride in the sample.

Answers:

- 1) 185 L 3) 14.9 mol 5) 23.4 grams 7) 9.40×10^{24} molecules
 9) 0.370 moles, 8.27 L and 2.22×10^{23} molecules