

Name: _____

Block: _____

Date: _____

Chemistry 11

Moles, Molecules & STP Key

Assignment

1. 99g CaCl_2
2. 0.5213mol PbSO_4
3. 22.2g HF
4. 5.04mol C_5H_{12}
5. 9.56g SiO_2
6. 0.140mol $\text{C}_4\text{H}_8\text{O}_2$
7. 102g N_2
8. 0.4201mol KMnO_4
9. 3.5×10^{23} atoms Se
10. 11.3mol BaNO_3
11. 1.51×10^{24} atoms O
12. 8.93mol MgBr
13. 4.14×10^{23} formula units AgNO_3
14. 14.0mol C_2H_6
15. 8.91×10^{23} formula units NaF
16. 5.3×10^{22} formula units NaOH
17. 304g C_2H_6
18. 3.8×10^{22} formula units TiO_2
19. 192g CH_3OH
20. 3.0×10^{21} formula units PbCl_2
21. 693g $\text{C}_{10}\text{H}_{22}$
22. 9.9×10^{22} formula units H_2S
23. 39.9mol air
24. 8.3L N_2
25. 31.0mol O_2
26. 309L CO
27. 0.164mol Ne
28. 19.8L H_2S
29. 4.51mol Ar
30. 3090L HBr or 3.09×10^3 L HBr