

CHEMISTRY REVIEW WORKSHEET ANSWERS
CHAPTER 5 – Quantities in Chemistry

1. a. 149 g
b. 396 g
2. a. 51.2 %
b. 53.8 %
c. 5.1 %
3. a. 64.1 %
b. 291 g
4. a. 22.0 g
b. 0.64 g
c. 1.83×10^{-4} g
d. 1.66×10^{-22} g
5. a. 1.51×10^{24} molecules
b. 1.81×10^{23} molecules
c. 3.83×10^{22} molecules
6. a. 0.0543 moles
b. 6.05×10^3 moles
c. 10.5 moles
d. 33.9 moles
7. a. 6.72 L
b. 4.48 L
c. 0.447 L
d. 4.48 L
8. 2.41×10^{23} Na ions
9. 183 mL
10. 55.1 %
11. E.F. = $\text{N}_2\text{H}_4\text{O}_3$
12. E.F. = $\text{C}_9\text{H}_{13}\text{O}_3\text{N}$
13. a. E.F. = CH_2O
b. Mol. Form. = $\text{C}_3\text{H}_6\text{O}_3$
14. 0.112 mole CuSO_4
15. 9440 g CCl_4
16. 7.65×10^{23} molecules
17. 9.57 moles water