Revised August 2011

HONORS WORKSHEET 4s: ANSWERS

1. 1.6 moles
2. 2.6×10^{23} atoms
3. 63.2 g
4. 0.0508 moles
5. Strontium
6. 4.09×10^{21} atoms
7. 43.1 g
8. 9.55 g
9. C 52.2%, H 13.0%, O 34.8%
10. Al 15.8%, S 28.1%, O 56.1%
11. Al 14.5%, Fe 22.6%, C 29.0%, N 33.9%
12. AgCl
13. NaF
14. C_6H_6
15. $C_3H_6O_2$ is empirical and molecular
16. C_3H_8NBr
17. 70.0%
18.
    (a) $Fe + CuSO_4 \rightarrow FeSO_4 + Cu$
    (b) $CuSO_4$ is limiting, Fe is in excess
    (c) 79.4 g
    (d) 0.89 moles
19. 2
20.
    (a) 1.19 L
    (b) 6.06×10^{-3} moles
21. 0.45 L