

Name: _____

Block: _____

Date: _____

Chemistry 11

Limiting Reagents and Percent Yield Key

Assignment

1. O₂ is limiting.
2. Mg(OH)₂ is limiting.
3. H₂SO₄ is limiting.
4. NaCl is in excess.
5. 12g of CrCl₃
6. 15.5g SO₃
7. 44.2g Fe
8. 27.3g N₂
9. 22.9g NaCl
10. a) $\text{Pb}(\text{NO}_3)_2 + 2\text{NaI} \rightarrow 2\text{NaNO}_3 + \text{PbI}_2$
b) 8.51g NaNO₃
c) NaI
d) 8.4g Pb(NO₃)₂ would be left over.
11. 42% yield
12. 49.1% yield
13. 81.6% yield
14. a) 20.00g FeCl₂
b) 20.0% yield
15. a) 22.2g CS₂
b) 2.1g SO₂ left over.
16. 0.279g BaBr₂
17. a) 21.1g SiF₄
b) 8.03g left unused.
c) 34.2% yield