

Chapter 3 Study Worksheets

Answer Key

STOICHIOMETRY WORKSHEET

- 1) 18.00 mol O_2
- 2) 4.77 g KCl; 2.10 g KCl
- 3) 77.4 g NaOH; 248 g Na_2O
- 4) 27.8 g Fe; 43.8 g FeS
- 5) 576.0 g O_2 ; 97.5 g NaCl
- 6) 1.75 mol Cu; 26.3 g Cu
- 7) 3.00 mol of product

LIMITING REACTANTS WORKSHEET

- 1)
 - a. 6 mol Cl_2
 - b. $FeCl_3$
 - c. O_2
- 2)
 - a. 22 g H_2O
 - b. O_2
 - c. C_2H_6

PERCENT YIELD WORKSHEET

- 1)
 - a. 65.7 g chlorobenzene
 - b. 97.0%
- 2)
 - a. theoretical yield= 42.1 g SO_2 ; 96.2%
 - b. theoretical yield= 36.7 g CO_2 ; 88.3%