***Some molar masses to help speed things up for you***☺

C3H8 = 44.1

O2 = 32

H2O = 18

Al2(SO3)3 = 294.2

NaOH = 40

Na2SO3 = 126.04

Al2O3 = 101.96

Fe = 55.85

CuCl2 = 134.45

NaNO3 = 84.995

Cu(NO3)2 = 187.56

NaCl = 58.443

Ba3(PO4)2 = 601.92

Na3(PO4) = 163.94

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***Some answers so you can check your work as you go***☺

**1)** O2 is LR and C3H8 is XS

**2)** 0.0645 mol CO2 made

**3)** 1.55 g H2O made

**4)** 13.87 g C3H8 left

**5)** Al2(SO3)3 is LR and
 NaOH is XS

**6)** 0.06798 mol Al(OH)3 made

**7)** 12.85 g Na2SO3 made

**8)** 1.842 g NaOH left

**9)** Fe is LR and Al2O3 is XS

**10)** 0.163 mol Al made

**11)** 0.061 mol Fe3O4 made

**12)** 17.1 g Al2O3 left

**13)**

 **A)** CuCl2 + 2NaNO3 -->
 Cu(NO3)2 + 2NaCl

 **B)** CuCl2 is LR

 **C)** 0.224 mol NaCl made

 **D)** 21.01 g Cu(NO3)2 made

 **E)** 0.011 mol NaNO3 left

 **F)** 86.3% yield

**14)**

 **A)** 6NaCl +Ba3(PO4)2 -->
 2Na3(PO4) + 3BaCl2

 **B)** NaCl is LR

 **C)** 935.0 g Na3(PO4) made
 and 1781.2 g BaCl2 made

 **D)** 283.52 g Ba3(PO4)2 left

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