**Topics Bonus Quiz: 3rd Quarter**

1. Balance the following equations (1 pt each):

\_\_\_\_ NaBr + \_\_\_\_ K2CO3 🡪 \_\_\_\_ KBr + \_\_\_\_ Na2CO3

\_\_\_\_ C2H4 + \_\_\_\_ O2 🡪 \_\_\_\_ CO2 + \_\_\_\_ H2­O

\_\_\_\_ H2 + \_\_\_\_ S8 🡪 \_\_\_\_ H2S

\_\_\_\_ Ag + \_\_\_\_ Fe(NO3)2 🡪 \_\_\_\_ AgNO3 + \_\_\_\_ Fe

\_\_\_\_ NaHCO3 🡪 \_\_\_\_Na2O + \_\_\_\_ CO2 + \_\_\_\_ H2O

1. How many moles are there in 35 grams of Na2O? (3 pt)
2. How many grams are there in 0.077 moles of PbSO4? (3 pt)
3. How does hot air cause a hot air balloon to fly? (3 pt)
4. What is the most difficult part of building a hot air balloon? (3 pt)