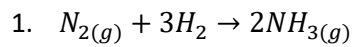


NAME: _____ DATE: _____ PERIOD: _____

CHECKPOINTS



- a. How many grams of ammonia (NH₃) are produced when 2.10 grams of hydrogen are used in the above reaction?

- b. How many kilograms of hydrogen are needed to produce 4.23×10^{27} molecules of ammonia?

NAME: _____ DATE: _____ PERIOD: _____

2. When P_4S_3 reacts with oxygen it produces P_4O_6 and sulfur dioxide (SO_2).
- Write and balance the reaction above:
 - How many grams of oxygen will be consumed to if 7.45 grams of P_4S_3 are used in the reaction above?
 - If you want to produce 75 kilograms of P_4O_6 , how many molecules of SO_2 will also be produced?
 - If 42 grams of sulfur dioxide were to be produced, how many grams of P_4S_3 and oxygen would be needed?

