STOICHIOMETRY RACE

Gram to Gram Conversions

1. Balanced Equation: $2KClO_3 \rightarrow 2KCl + 3O_2$

What is the mass of A given? *15 g $KClO_3$*

Which element/compound(B) are you solving for? *O_2*

15 g $KClO_3$	*1 mol $KClO_3$*	*3 mol O_2*	*32 g O_2*
	122.55g $KClO_3$	*2 mol $KClO_3$*	*1 mol O_2*

Answer: *5.88 g O_2*

2. Balanced Equation: $4NH_3 + 5O_2 \rightarrow 4NO + 6H_2O$

What is the mass of A given? *30 g NH_3*

Which element/compound(B) are you solving for? *NO*

30 g NH_3	*1 mol NH_3*	*4 mol NO*	*30.01 g NO*
	17.04 g NH_3	*4 mol NH_3*	*1 mol NO*

Answer: *52.83 g NO*

3. Balanced Equation: $2Al + 3Br_2 \rightarrow 2AlBr_3$

What is the mass of A given? *50 g Al*

Which element/compound(B) are you solving for? *$AlBr_3$*

50 g Al	*1 mol Al*	*2 mol $AlBr_3$*	*266.78 g $AlBr_3$*
	26.98 g Al	*2 mol Al*	*1 mol $AlBr_3$*

Answer: *494.40 g $AlBr_3$*