1. (7 pt) How many moles of water are made from the reaction of 2.2 moles of oxygen gas? Given the reaction: $2H_2 + O_2 \rightarrow 2H_2O$

 $H_2 = 2.02 \text{ g/mol}$

 $O_2 = 32.00 \text{ g/mol}$

 $H_2O = 18.02 \text{ g/mol}$

2.2 mol Og x 2 mol Hzp.

1 mol Oz

(4.4 mol that)

2. (3 pt) In another reaction, if the theoretical yield is 42.0 grams of product and the percent yield is 75%. How many grams were actually produced?

To yield = act x100

75 = act 420 x100

act = 75 x 42 = (31.5g)