

# Business

synthesis of  
Lab: Alum

Extra Help  
Times

Today 2-4

Tomorrow 10-12

room 22

or

my

office

1st Exam : through Chapter 3

# Reaction Stoichiometry

Weight relations in chemical reactions:

- 1.If I react this much, how much product do I get?
- 2.If I need this much product, how much do I need to react

1. If you have 200 tires, how many cars can you make?

1. 200

2. 100

3. 800

4. 50

$$200 \text{ tires} \times \frac{1 \text{ car}}{4 \text{ tires}} = 50 \text{ cars}$$

Stoichiometric factor  $\Downarrow$  really

2. If you have 200 tires, how many motorcycles can you make?

1. 200

2. 100

3. 800

4. 50

$$200 \text{ tires} \times \frac{1 \text{ motorc.}}{2 \text{ tires}} = 100 \text{ motorc.}$$

ratio  $\Downarrow$   
from  
balanced  
chemical  
equation