























Proportioning Concrete

> Typical mixing procedure:

- 1. Clean mixer
- 2. Add aggregates and mix for 2 minutes
- 3. Add cement and mix for 2 minutes
- 4. Add $\frac{1}{2}$ of the mixing water and mix for 2 minutes
- 5. Add remaining mixing water and mix for 5 minutes (pay close attention to the concrete in the back of the mixer and make sure that all the materials are well mixed and as homogeneous as possible)

Proportioning Concrete		
Group Problem – 1:2:2 mix with w/c = 0.4 for 5 cylinders		
1.	What volume of concrete do you need if your MSYHEF = 1.5	V = 0.184 ft ³
2.	What is the weight of concrete for your mix?	W = 27.61 lb.
3.	What is the weight of cement?	W _c = 5.50 lb.
4.	What is the weight of fine aggregate?	W _{FA} = 11.05 lb.
5.	What is the weight of coarse aggregate?	W _{CA} = 11.05 lb.
6.	For your mix in lab, what is the weight of water?	W _{water} = 2.2 lb.

