Chapter 1 outline:

- Introduction, sets and elements (last week Monday)
- Set operations; visual verification of set propositions (last week Wednesday)
- Introduction to SML; cardinality and Cartesian products (last week Friday)
- Making types and functions in SML (**Today**)
- More about functions in SML; introduction to lists [Chapter 2] (Friday)

Today: *Making stuff in SML*

- A few follow-up points from last time
- Making our own types
- Making our own operations

```
#1(5, 4) + int(4.0 / 3.1)
```

```
(5 + 7, String.sub("hello", 2))
```

$$(((\underbrace{1}_{\text{int}}, \underbrace{2}_{\text{int}}), \underbrace{5.7}_{\text{real}}, (\underbrace{\#"A"}_{\text{char}}, \underbrace{\#"x"}_{\text{char}})), \underbrace{8}_{\text{int}}, \underbrace{"bye"}_{\text{string}})$$

int * int

char * char

(int * int) * real * (char * char)

((int * int) * real * (char * char))* int * string

For next time:

Pg 36: 1.9.(14 & 16)
Pg 40: 1.10.(1-4)

SML problems should still be submitted on paper with the rest of the assignment.

Re-read 1.11 (if necessary)
Skim 1.(12 & 13).
Read 2.1 (focus on this one)
Skim 2.2

Take quiz