m * n = m/2 * 2n

$$= 2 * 48$$

$$= 1 * 96$$

•

```
m * n = m//2 * 2n
... w/ leftover
```

•

Sequencing only matters when expressions have side effects.

Side effects only matters when expressions are in sequence.

Until today, every data value we have used in the course has been immutable

Even when we created a local "variable", we assigned a value to it exactly once.

imperative programming

Defining a name and changing the value of a named object are different activities.

They should be different operations in the language.

In C++:

```
Foo a = new Foo();
```

versus:

```
Foo a;
a = new Foo();
```

set!

closure

a function

plus

the **environment** that existed when the function was created

state

name — value — location

.