**Mixed Type Arithmetic**

* Integers alone yield and integer
  + Truncate decimals
* One double turns the entire outcome into a double

*Example Problems:*

1. int a = 3/2; 🡪 1
2. double b = 3/2; 🡪 1.0
3. int c = 3.0/2; 🡪 Error
4. double d = 3.0/2 🡪 1.5
5. int e = 3.0/2.0 🡪 Error
6. double f = 3/2.0 🡪 1.5

Casting

* change one data type to another compatible form
* (type to go to) value or variable
* ex: double x = 3.14;

int y = (int)x;