Model 1 Order of Operations

Java follows a specific order for math and other operations. For example, multiplication and division take *precedence* over addition and subtraction. The following table lists several Java operators from highest precedence to lowest precedence.

Parenthesis	()
Unary (positive or negative signs)	+ -
Multiplicative	* / %
Additive	+ -
Assignment	=

For the following questions, assume you have these two variables:

```
int x;
double y;
```

Questions (10 min)

Start time:

- 1. What operator has the lowest precedence? Why do you think Java is designed that way?
- 2. What operator has the highest precedence? Why do you think Java is designed that way?
- 3. The + and operators show up twice in the table of operator precedence. For the Java statement x = 5 * -3; explain how you know whether the operator is being used as an *unary* or *binary* operator.

