Announcements

- **Project due tomorrow night (Thursday)**
- **Exam #2 will be on Monday**

Return and go over Quiz…

Arithmetic Example

Example: SimpleArithmetic.html

Arithmetic Example

What went wrong?

How does a calculator handle this?

First Conclusion: We cannot rely on == to compare "floating point" values.

What can we do instead?

Example: SimpleArithmetic2.html

Representing Money

Second Conclusion: Never use floating point values to represent money!

Instead of using dollars:

```
var amount = 10.48;   // $10.48
```

Use pennies:

```
var amount = 1048;
```

Increment Operators

Three ways to increment a variable:

```
x = x + 1;
x++;
++x;
```

How is ++x different from x++?

They carry different values:

```
x++  →  value matches x before increment
++x  →  value matches x after increment
```

Example: Increment.html

Decrement Operators

Three ways to decrement a variable:

```
x = x - 1;

x--;

--x;
```

Same semantics as "++"...

Other Shortcuts

x = x + 7;	x += 7;
x = x − 7;	x -= 7;
x = x * 7;	x *= 7;
x = x / 7;	x /= 7;