Addition

The Addition (+) Operator

The addition operator works as you would expect with numbers.

```
System.out.print(7 + 3);
```

TRY IT

```
    10
```

You can also add two variables together.

```
int a = 7;
int b = 3;
System.out.print(a + b);
```

TRY IT

```
    10
```

What happens if you:
- Make `a` of type double(e.g. `double a = 7.0;`)?
- Make `b` a negative number (e.g. `int b = -3;`)?
- Make `b` an explicitly positive number (e.g. `int b = +3;`)

TRY IT

```
    10.0
```

Adding ints and doubles

What happens when you add an int and a double together?

○ You get an error

○ You get an int

○ You get a double

Since a double can represent the same value as an integer (`2.0` is the same value as `2`), but not necessarily the other way around (`2.4` cannot be an int) the result will be a double. For example:

`7.0 + 3 = 10.0`