

Unit 6

- Arithmetic Operators
- Example



Math Stuff in Java

Arithmetic Operators

+	Addition
-	Subtraction
*	Multiplication
/	Division
%	Modulus (remainder)

Examples

```
int a, b, c, d;  
a = 10;  
b = 2;  
c = a + b;  
d = a * b;  
int e = a % b;
```

Shortcuts in Java

<code>a++;</code>	means	<code>a = a+1;</code>
<code>a--;</code>	means	<code>a = a-1;</code>
<code>a+=b;</code>	means	<code>a = a+b;</code>
<code>a-=b;</code>	means	<code>a = a-b;</code>
<code>a*=b;</code>	means	<code>a = a*b;</code>
<code>a/=b;</code>	means	<code>a = a/b;</code>

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More Math Stuff (need: import java.lang.Math;)

```
Math.sqrt(double a);
```

```
Math.pow(double a, double b);
```

```
Math.abs(double a);
```

Examples

```
double a, b, c, d;  
a = 100;  
b = 2  
c = -12.6;  
d = Math.sqrt(a);  
e = Math.pow(d, b);
```



Ex. Using the template provided, complete the methods of the **CircleCalculator** class.

Test the program for logic errors.

