

```
int a = 1, b = 3;
```

```
System.out.println("a + b = " + a + b);  
a + b = 13
```

```
System.out.println("a - b = " + a - b);  
ERROR
```

```
System.out.println("(a + b) = " + (a + b));  
(a + b) = 4
```

```
System.out.println(a + b + " = a + b");  
4 = a + b
```

```
System.out.print((int) Math.sqrt(4 * 2) * 3);  
6
```

```
System.out.print(Math.sqrt(2* 2) * 3);  
6.0
```

```
System.out.print(a / b);  
0
```

```
System.out.print((double) a / b);  
0.333333333333333333333333333333
```

```
System.out.println(a / (double) b);  
0.333333333333333333333333333333
```

```
System.out.println((double) (a / b));  
0.0
```

```
double x = 1, y = 4;  
int a = 1, b = 3;
```

```
System.out.println((int) x / y);  
0.25
```

```
System.out.println(x / (int) y);  
0.25
```

```
System.out.println((int) (x / y));  
0
```

```
System.out.println(a % b);  
1
```

```
System.out.println(b % a);  
0
```

Precedence Rules

()

.

(int) (double) (char)

* % /

+ -

=

```
static double    toDegrees(double angrad)
```

What is the method name?

toDegrees

How many parameters does the method take as input?

1

What is the type of the parameter?

double

What type does the method return (or evaluate to)?

double

What does the static signify?

when calling the method the class name comes before the method name

How would you call this method to convert 1 radian to degrees?

```
Math.toDegrees(1)
```

Why does Java not automatically convert doubles to ints?

some doubles would lose information when being converted to an int

```
double    nextGaussian()
```

How many parameters does the above method have?

0

What type does the above method return?

double

How would you call the above method to generate a random number between 0 and 1?

```
Random generator = new Random();  
generator.nextGaussian();
```

```
String    trim()
```

Call the above method to trim the following string phrase = " \t something\n"
phrase = phrase.trim();