Math.random

Mr. Poole Java

So far, we've used the Random library

Time to change it up!

So the Random library isn't quite usable on the AP Exam

Sadly can't use this anymore :(

Math.random

We don't need to import anything to use it!

```
Math.random(); // # between 0-1
```

This is just like our nextDouble()!

So how do we make random integers?

We treat Math.random() as a percentage!

```
Math.random()*10;
// decimal # between 0-10 not including 10
```

Math.random() gives some decimal number between 0 and 1.

If we multiply that by 10.

It's like 0.25*10 = 2.5

Or 0.612*10 = 6.12

Making it an integer - Introducing Math.floor()

Math.floor() returns the largest integer from the number given

```
Math.floor(Math.random()*10);
// integer # between 0-10 not including 10
```

Lab - Math.random()

- 1. Redo the Random Lab 009
- 2 Create 4 random numbers and output them
 - a. A number between 0 and 9
 - b. A number between 1 and 100
 - c. A number between 2.5 and 3.5
 - d. A double between 14 and 589