

# AP CS: Lesson 3: for Loops

Name: \_\_\_\_\_ Period: \_\_\_\_\_

## Java Syntax:

### For Loop:

```
for (initialization; test; update) {  
    statement;  
    ...  
    statement;  
}
```

### Example:

```
for (int i = 1; i <= 6; i++) {  
    System.out.println("I am so smart");  
}
```

### The test typically uses:

< less than  
<= less than or equal to  
> greater than  
>= greater than or equal to

### Shorthand

`variable++;`

`variable--;`

`variable += value;`

`variable -= value;`

`variable *= value;`

`variable /= value;`

`variable %= value;`

### Equivalent longer version

`variable = variable + 1;`

`variable = variable - 1;`

`variable = variable + value;`

`variable = variable - value;`

`variable = variable * value;`

`variable = variable / value;`

`variable = variable % value;`

### Class Constant:

`public static final type NAME = value;`

### Class Notes:

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## Exit Ticket

**(Please complete, record your name, and turn in, it will be returned to you next class):**

1. I understand solving Expressions with Java types:  Yes,  Somewhat,  No
2. I understand creating & updating Variables:  Yes,  Somewhat,  No
3. I understand for loops:  Yes,  Somewhat,  No

Additional comments, especially if you answered "No" to any of the above what would you like to more details on? Thanks

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