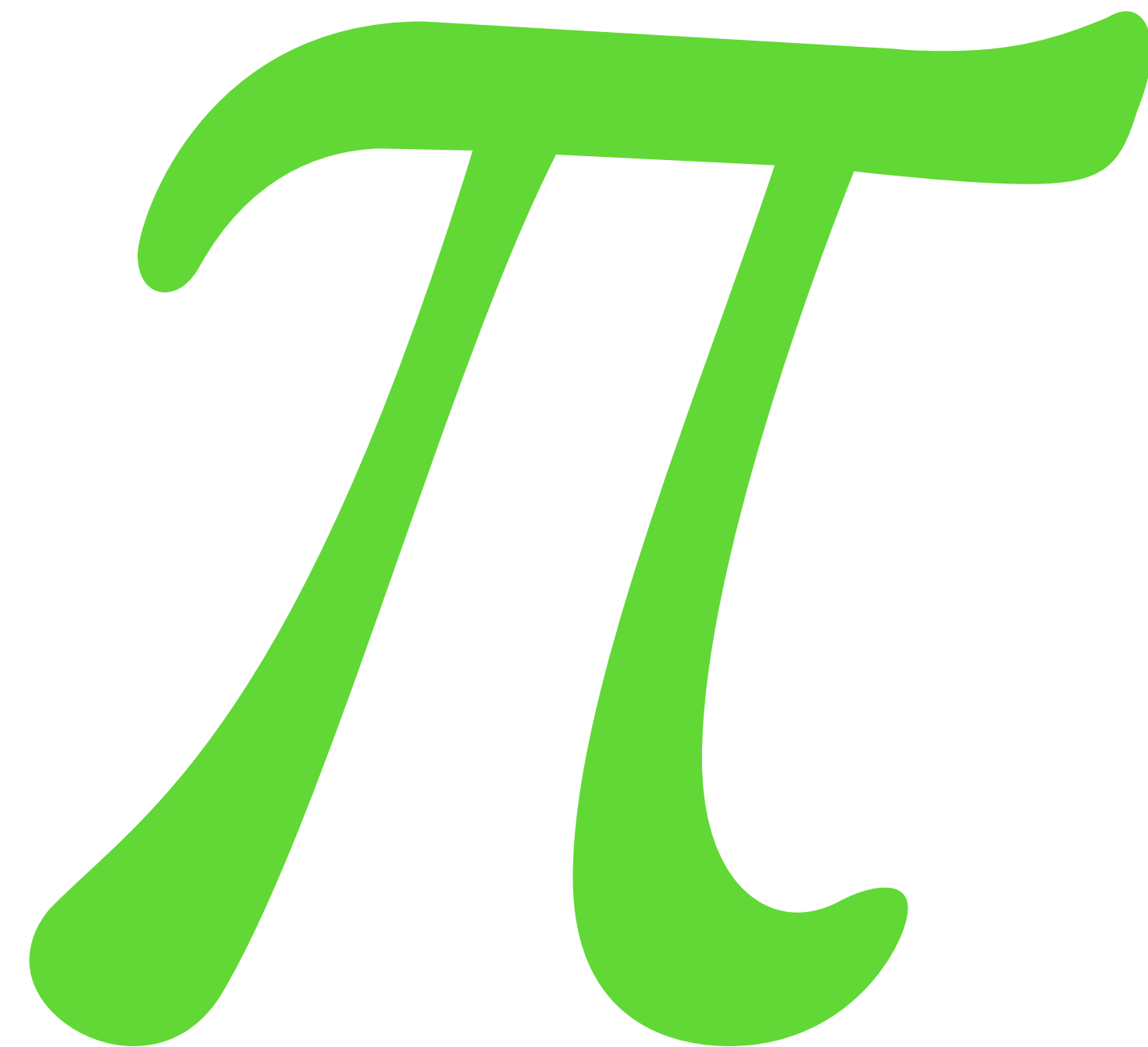Essential Computing 1

Literals & Constants

π

We hate **literals**. We have no clue what they represent.

```
double towerCount = 384400 / (829.8 / 1000.0);
```

This is also called **hardcoding**. Because it's hard to read.

```
double towerCount = 384400 / (829.8 / 1000.0);
```

Better

```
double towerHeight = 829.8; // Meters
double distanceToMoon = 384400; // Kilometers

double towerCount = distanceToMoon / (towerHeight / 1000.0);
```

Best. When values don't change, declare them as **constants**

```java
final double TOWER_HEIGHT = 829.8; // Meters
final double DIST_TO_MOON = 384400; // Kilometers

final double TOWER_COUNT = DIST_TO_MOON / (TOWER_HEIGHT / 1000.0);
```