

# Chapter two

## Building blocks

# Simple data types in Java

- byte ; very small integers -128 to 127
- short; small integers -32768 to 32768
- int ; big integers
- long; very big integers
- float; real numbers
- double; very big real numbers
- char; characters
- boolean true or false

# Declaring variables in Java

- `dataType variableName;`
- `int score;`
- `int score, hits;`  
`char level;`

# Assignments in Java

- `int score;`  
`score = 0;`
- `int score = 0;`

## Creating constants

- `final int HOURS=24;`
- Arithmetic operators; `+`, `-`, `*`, `/`,
- `%` returns the remainder.