Summary - Maths & Statistics

0. Basics

• Modulo

28 %% 6

[1] 4

0.1 Managing Packages

```
\# install.packages("ggplot2")
library(ggplot2)
0.2 Data Types
typeof(5)
typeof("text")
typeof(TRUE)
## [1] "double"
## [1] "character"
## [1] "logical"
0.3 Arithmetic with R
  • An addition
5 + 5
## [1] 10
  • A subtraction
5 - 4
## [1] 1
  • A multiplication
3 * 5
## [1] 15
  • A division
(5 + 5) / 2
## [1] 5
  • Exponentiation
2 ^ 5
## [1] 32
```

0.4 Variable Assignment

```
var1 <- 5
var2 <- 13
var1 + var2
## [1] 18</pre>
```

Vectors & Matrices

• Creating a vector

```
vec1 <- c(1, 2, 3, 4, 5)
vec1</pre>
```

```
## [1] 1 2 3 4 5
length(vec1)
```

```
## [1] 5
```

• Getting the components of a vector (slicing)

```
vec1[1]
```

```
## [1] 1
vec1[1:3]
```

[1] 1 2 3