

LAB 5

SIMON WILLERTON

CONTENTS

1. Recommended fiction	1
2. Tables	1
3. More commands	1
3.1. Aligned equations	1
3.2. Text in maths mode	2
3.3. Brackets	2
References	2

1. RECOMMENDED FICTION

A friend recommended I read some books by Doris Lessing, starting with one of her most famous books [2]. I recommended that she read my favourite book about a caterpillar with a large appetite, in particular, the part about the cakes [1, p. 13].

2. TABLES

Name	Location	Height (m)
Arts Tower	Bolsover Street	78
St. Georges Church	Broad Lane	43
Hicks Building	Hounsfield Road	40

TABLE 1. The heights of some buildings at the University of Sheffield

Have a look at Table 1 for more details.

3. MORE COMMANDS

3.1. Aligned equations. The Binomial Theorem says that for $n \in \mathbb{N}$ we have

$$\begin{aligned}(a+b)^n &= \sum_{i=0}^n \binom{n}{i} a^i b^{n-i} \\ &= a^n + na^{n-1}b + \binom{n}{2}a^{n-2}b^2 + \cdots + b^n.\end{aligned}$$

3.2. Text in maths mode. Let

$$x = u + v \quad \text{and} \quad y = u - v.$$

3.3. Brackets.

$$\sin(x) \left[\frac{y - \left(x + \langle w, z \rangle^2 \right)}{x + 7} \right]$$

REFERENCES

- [1] E. Carle, *The Very Hungry Caterpillar*, Philomel Books, 1994.
- [2] D. Lessing, *The Golden Notebook*, HarperCollins Publishers, 2012.