

MAS334 COMBINATORICS 2017/2018

Feedback on homework 1

- Marks out of 15. Qs 1, 3 and 5 worth 4, 5 and 6 marks respectively.
- Good hand-in rate. Do try the questions seriously if you didn't hand in homework.
- Please read the comments on your marked work!
- Please do attempt the other questions and use the solutions (on the webpage) sensibly.
- Please do not hand in rough workings - write it out again coherently.
- Write in sentences!
- Check what you have written is sensible. Does it imply something obviously false? Is it true for $n = 1$, $n = 2$?
- $=$ means "equals"
- \Rightarrow means "implies"
- \Leftrightarrow means "is equivalent to" or "if and only if"
- A pattern in small examples leads you to a guess or a conjecture. This is not a proof! You then need an argument to justify your guess.
- $(a + b + c)(x + y + z) = ax + ay + az + bx + by + bz + cx + cy + cz$.
- Please ask me if you would like extra feedback/help.