

Math 1007 Spring 2026
Mathematics and Politics
Homework 2 Due on Blackboard
Tuesday, Jan 27 at 4:45 PM

Name:

Make sure to explain why all your answers are correct! Remember that you should be making short persuasive arguments. (This explanation can take the form of showing calculations, or of a couple sentences of writing, depending on the question.)

- (1) Do *The Mathematics of Politics* problem 1.2
- (2) Consider the bloc profile with five blocs:

A	A	A	B	B	B	B	A	A	A	A	B
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- (a) Who wins under the simple majority method?
 - (b) Who wins if each bloc gets one vote?
 - (c) Who wins if each bloc gets a number of votes equal to the size of the bloc?
 - (d) We got very lucky in being able to answer the previous two questions. Which of these five blocs is likely to cause a problem unless I specify more information?
- (3) Do *The Mathematics of Politics* problem 1.4
 - (4) Do *The Mathematics of Politics* problem 1.8