

Chapter 17 Review Questions



Studying for a chapter examination is a personal process, one which nobody else can do for you. Simply take the time to review what you have done. Here are the new terms in Chapter 17.

Adams' plan [17.3]	Hamilton's plan [17.3]	Plurality method [17.1]
Alabama paradox [17.4]	Hare method [17.1]	Population paradox [17.4]
Apportionment [17.3]	HH plan [17.3]	Quota rule [17.3]
Approval voting method [17.1]	Huntington-Hill's plan [17.3]	Runoff election [17.1]
Arithmetic mean [17.3]	Independence of irrelevant alternatives [17.2]	Sequential voting [17.1]
Arrow's impossibility theorem [17.2]	Irrelevant alternatives criterion [17.2]	Social choice theory [17.1]
Balinski and Young impossibility theorem [17.4]	Jefferson's plan [17.3]	Standard divisor [17.3]
Binary voting [17.1]	Lower quota [17.3]	Standard quota [17.3]
Borda count [17.1]	Majority criterion [17.2]	Straw vote [17.2]
Condorcet candidate [17.2]	Majority rule [17.1]	Symmetry [17.1; 17.2]
Condorcet criterion [17.2]	Modified divisor [17.3]	Tournament method [17.1]
Condorcet's paradox [17.2]	Modified quota [17.3]	Transitive law [17.2]
Decisiveness [17.2]	Monotonicity criterion [17.2]	Unrestricted domain [17.1]
Dictatorship [17.1]	New states paradox [17.4]	Upper quota [17.3]
Fairness criteria [17.2]	Pairwise comparison method [17.1]	Vote [17.1]
Fair voting principles [17.2]	Pareto principle [17.1]	Webster's plan [17.3]
Geometric mean [17.3]		

If you can describe the term, read on to the next one; if you cannot, then look it up in the text (the section number is shown in brackets). Next, study the types of problems listed at the end of Chapter 17.

TYPES OF PROBLEMS

- Understand and be able to use voting notation. [17.1]
- Decide how many different voting orders are possible for a set of candidates. [17.1]
- Use the majority rule. [17.1]
- Calculate the winner of an election using the plurality method. [17.1]
- Calculate the winner of an election using the Borda count method. [17.1]
- Calculate the winner of an election using the pairwise comparison method. [17.1]
- Calculate the winner of an election using the tournament method. [17.1]
- Calculate the winner of an election using the Hare method. [17.1]
- Be able to discuss and recognize the majority criterion [17.2]
- Be able to discuss and recognize the Condorcet criterion [17.2]
- Be able to discuss and use the monotonicity criterion [17.2]
- Be able to discuss and use the irrelevant alternatives criterion [17.2]
- What are the fairness criteria? [17.2]
- Be able to find the standard quota and divisor. [17.3]
- Apportion using Adams' plan. [17.3]
- Apportion using Jefferson's plan. [17.3]

Apportion using Hamilton's plan. [17.3]

Apportion using Webster's plan. [17.3]

Apportion using Huntington-Hill's plan. [17.3]

Be able to discuss and recognize the Alabama paradox. [17.4]

Be able to discuss and recognize the population paradox. [17.4]

Be able to discuss and recognize the new states paradox.[17.4]

Once again, see if you can verbalize (to yourself) how to do each of the listed types of problems.

Work all of Chapter 17 Review Questions (whether they are assigned or not). Work through all of the problems before looking at the answers, and *then* correct each of the problems. The entire solution is shown in the answer section at the back of the text. If you worked the problem correctly, move on to the next problem, but if you did not work it correctly (or you did not know what to do), look back in the chapter to study the procedure, or ask your instructor.

Finally, go back over the homework problems you have been assigned. If you worked a problem correctly, move on to the next problem, but if you missed it on your homework, then you should look back in the book or talk to your instructor about how to work the problem.

If you follow these steps, you should be successful with your review of this chapter.