Name:	Date:	Period:

Lab01: Entropy Calculation

- Attach a code printout.
- Use `abracadabra` as the message and fill in the table below:

symbol	frequency	probability	entropy

- What is the total entropy?
- What is the theoretical minimum number of bits needed to represent the message?
- How many redundant bits would ASCII use?
- If the theoretical minimum was achieved, what would be the compression factor?

Official Use Only

Header:	Name	Correct Date	Program Description
Style:	Comments	Variable Names	Modular
Data Structures:	Obvious	General	Lean
Algorithm:	Clear	Correct	Efficient
Scoring:	Raw _____	Late _____	Total _____