

Homework 3: Due at start of class on 09-Feb.

Please complete all nine problems.

1. The WBZ-TV weatherperson's performance record is given in the table below, the numbers indicating the relative frequency of the indicated events.

	actually rained	actually no rain
predicted rain	1/8	3/16
predicted no rain	1/16	10/16

A clever student notices the weatherperson is right only 12/16 of the time, but could be right 13/16 of the time by always predicting no rain. The student explains this to the station manager at WBZ and asks for the weatherperson's job. The station manager, who has studied information theory, turns the student down. Why?

2. C&T 2.15
3. C&T 2.23
4. C&T 2.29
5. C&T 2.32
6. C&T 3.2
7. C&T 3.6
8. C&T 4.2
9. C&T 4.9