

Compute the **kappa statistic** given the following confusion matrix.

		Predicted class			
		a	b	c	total
Actual Class	a	80	10	10	100
	b	50	40	10	100
	c	20	0	30	50
	total	150	50	50	

- What is the overall accuracy of the model?
- What is the kappa statistic?

Lift factor

Suppose that when you use Naive Bayes and sort the probabilities from highest to lowest, you get the following order for yes and no:

0.90 0.80 ...
y y y n n y n y n y y n n y n y n y y n n y n y n ...

Suppose that the sample size is 200, and the overall $P(\text{yes}) = 0.2$. What is the lift factor for NB when the sample size is 10%?