Table 9.1 Computations for chi-square test statistic for the politician example

	Hypothesized proportion	Observed frequency (f_i)	Expected frequency (e_i)	Difference ($f_i - e_i$)	Squared difference $(f_i - e_i)^2$	Squared difference divided by expected frequency $(f_i - e_i)^2/e_i$
Candidate A	0.15	95	75	20	400	5.33
Candidate B	0.4	180	200	–20	400	2.00
Candidate C	0.45	225	225	0	0	0.00
Totals		500	500			
Chi-square						7.33