

Two salesmen,  $A$  and  $B$ , work at a company that arranges different types of holidays: self-catering, hotel and cruise. The table shows, for a random sample of 150 holidays, the number of each type arranged by each salesman.

		Type of holiday		
		Self-catering	Hotel	Cruise
Salesman	$A$	25	38	21
	$B$	28	21	17

Test at the 10% significance level whether the type of holiday arranged is independent of the salesman.

[8]