

18 The Human Resources director in a company is investigating the graduate status and salaries of its employees.

Event G is defined as the employee is a graduate.

Event H is defined as the employee earns at least £40 000 a year.

The director summarised the findings in the table of probabilities below.

	H	H'
G	0.21	0.18
G'	0.07	0.54

18 (a) An employee is selected at random.

18 (a) (i) Find $P(G)$

[1 mark]

18 (a) (ii) Find $P[(G \cap H)']$

[2 marks]

18 (a) (iii) Find $P(H | G')$

[2 marks]

18 (b) Determine whether the events G and H are independent.

Fully justify your answer.

[2 marks]