

- 3 Last Saturday, Sarah recorded the colour and type of 160 cars in a car park. All the cars that were not red or silver in colour were grouped together as ‘other’. Her results are shown in the following table.

		Type of car		
		Saloon	Hatchback	Estate
Colour of car	Red	20	40	12
	Silver	14	26	10
	Other	6	24	8

- (i) Find the probability that a randomly chosen car in the car park is a silver estate car. [1]

.....

.....

- (ii) Find the probability that a randomly chosen car in the car park is a hatchback car. [1]

.....

.....

- (iii) Find the probability that a randomly chosen car in the car park is red, given that it is a hatchback car. [2]

.....

.....

.....

.....

- (iv) One of the cars in the car park is chosen at random. Determine whether the events ‘the car is a hatchback car’ and ‘the car is red’ are independent, justifying your answer. [2]

.....

.....

.....

.....

.....

.....

.....

.....