

AQA – Chi squared test for association – AS Further Mathematics Statistics**1. June/2021/Paper_7366/2S/No.7**

Two employees, *A* and *B*, both produce the same toy for a company.

The company records the total number of errors made per day by each employee during a 40-day period. The results are summarised in the following table.

		Number of errors made per day				
		0	1	2	3 or more	Total
Employee	<i>A</i>	8	10	20	2	40
	<i>B</i>	18	4	15	3	40
	Total	26	14	35	5	80

The company claims that there is an association between employee and number of errors made per day.

- (a) Test the company's claim, using the 5% level of significance.

[9 marks]

- (b) By considering observed and expected frequencies, interpret in context the association between employee and number of errors made per day.

[2 marks]